

CATALOGUE 2011

beyma //

PROFESSIONAL LOUDSPEAKERS

beyma //

PROFESSIONAL LOUDSPEAKERS

1969 - 2011

Nace Beyma como empresa familiar fabricante de altavoces para aplicaciones profesionales.

Beyma was born as a familiar company manufacturer of loudspeaker for professional applications.

1969

1ª presencia en Musikmesse (Frankfurt, Alemania) como representante español del sector del audio profesional.

1st presence at Musikmesse (Frankfurt, Germany) as Spanish representative in the professional audio industry.

1974

Comienzo de las exportaciones en: Alemania, Francia, Bélgica. Tras el éxito en la zona europea, la empresa se expande hacia los mercados asiáticos.

Beginning of exports to: Germany, France and Belgium. After the success in the European zone, the company spreads towards the Asiatic market.

1976

Premio a la exportación de la Cámara de Comercio e Industria de Valencia.

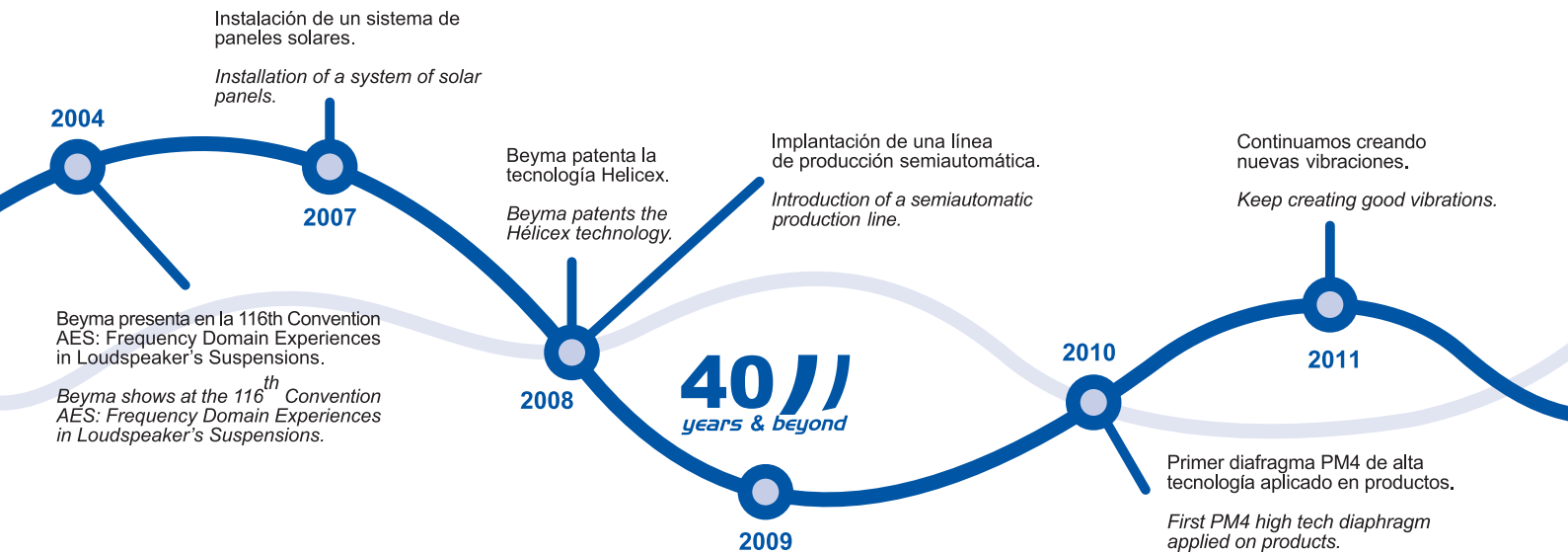
Award to the export by the Chamber of Commerce of Valencia.

1987

Obtención de la norma ISO 9001, por exigencias del mercado mundial.

Obtaining ISO 9001, by demands of the global market.

1998



índice / index

pro

GRAVES / LOW FREQUENCY	
SW1600Nd SERIES	12
- 21SW1600Nd	12
- 18SW1600Nd	12
- 15SW1300Nd	13
- 12SW1300Nd	13
P1200Nd SERIES	14
- 18P1200Nd/N	14
- 15P1200Nd/N	14
P1000Nd SERIES	15
- 18P1000Nd	15
- 15P1000Nd	15
- 12P1000Nd	16
P1000Fe SERIES	16
- 18P1000Fe	16
- 15P1000Fe	17
P80Nd SERIES	17
- 18P80Nd	17
- 15P80Nd	18
- 12P80Nd	18
G50 SERIES	19
- 18G550	19
- 15G450/N	19
LX60V2 SERIES	20
- 18LX60V2	20
- 15LX60V2	20
- 12LX60V2	21
G40 SERIES	21
- 18G40	21
- 15G40	22
- 12G40	22
- 10G40	23
- 8G40	23
- 6G40Nd	24
- 5G40Nd	24
MW/Nd SERIES	25
- 15MWNd	25
- 12MWNd	25
- 10MWNd	26
Nd LW30 SERIES	26
- 15LW30	26
- 12LW30/N	27
- 10LW30/N	27
- 8LW30	28
P200 SERIES	28
- 8P300Fe	28
- 6P200Nd	29
- 6P200Fe	29
- 5P200Fe	30
REFUERZO SONORO / SOUND REINFORCEMENT	
MI100 SERIES	30
- 15MI100	30
- 12MI100	31
- 10MI100	31
- 8MI100	32
- 6MI100	32
- 6MI90	33
Nd/M SERIES	33
- 605Nd	33
- CM-10	34
- CM-8B	34
- BF-8R	35
- CM-6	35

AMPLIA GAMA / FULL RANGE LOUDSPEAKER	
- 12GA50	36
- 10AG/N	36
- 8AG/N	37
- 5B30CX	37
COAXIALES / COAXIALS	
- 15CX400Nd	38
- 15XA38Nd	38
- 12CX400Nd	39
- 12XA30Nd	39
- 15KX	40
- 12KX	40
- 10XC25	41
- 8XC300Nd	41
- 8XC20	42
- 6CX200Nd	42
- 5CX200Nd	43
MOTOR DE COMPRESIÓN / HIGH FREQUENCY COMPRESSION DRIVER	
- CP850Nd	43
- CP800/Ti	44
- CP750Nd	44
- CP750/Ti	45
- CP855Nd	45
- CP755Nd	46
- CP755Nd/Al	46
- CP755/Ti	47
- CD1014Nd	47
- CP380/M	48
- CP385Nd	48
- CD10Nd	49
- CD10Fe	49
TWEETER DE DIAFRAGMA PLEADO / PLEATED DIAPHRAGM TWEETER	
- TPL150	50
- TPL150/H	50
MOTORES LINE ARRAY / LINE ARRAY DRIVERS	
- WL5	51
- WL4	51
- WL3	52
TWEETER DE COMPRESIÓN / COMPRESSION TWEETER	
- CP25	52
- CP22	53
- CP21/F	53
- CP16	54
- CP12/N	54
- CP09	55
BOCINAS DE DIRECTIVIDAD CONSTANTE / CONSTANT DIRECTIVITY HORN	
- TDWL4	55
- TD595	56
- TD590	56
- TD460/N	57
- TD385	57
- TD365	58
- TD194	58
- TD164	59
FILTRO PASIVO / FILTER	
- FD350	59
- F300	59
- FD250	60
- FD212	60
- F200	60
- FD2XA	60
- FD2XC1	61
- FD2XC2	61
- FD2CX	61
- F130	61
- F102	62
- F100	62
- 2V HI-FI	62
- 3V HI-FI	62

SM

GRAVES / LOW FREQUENCY	
- SM118/N	66
- SM115/N	66
- SM115/K	67
- SM112/N	67
- SM212	68
- SM110/N	68
- SM108	69
MOTOR DE COMPRESIÓN / HIGH FREQUENCY COMPRESSION DRIVER	
- SMC60	69
- SMC65	70
- SMC65Nd	70
- SMC1050/N	71
- SMC280/ST	71
- SMC225Nd	72
- SMC8060	72
TWEETERS DE CÚPULA DE ALTO RENDIMIENTO / HIGH EFFICIENCY DOME TWEETER	
- SMC2012/N	73
studio	
GRAVES / LOW FREQUENCY	
- 12B100/R	76
- 12BR70	76
- 10BR60	77
- 8BR40/N	77
- 8WOOFER/P-V2	78
VIBRADORES DE BAJA FRECUENCIA / BASS SHAKERS	
- SK07	78
GRAVES/MEDIOS / LOW & MID FREQUENCY	
- 8M70-V2	79
- 6B30/P	79
- 5MP60/N	80
- 5M30	80
COAXIALES / COAXIALS	
- 8BX/N	81
AGUDOS / HIGH FREQUENCY	
- MC115	81
- T2030	82
- T2010	82

accesorios / accessories

- AM1	85
- AM21	85
- VM30	85
- VM100	85
- RE8/N	85

índice técnico / technical index

BAJA Y MEDIA FRECUENCIA / LOW & MID FREQUENCY

MODEL	DIAM (inches)	POT(WAES)	SENSITIVITY(dB 2.83V)	COIL DIAM	Fs (Hz)	Vas (liter)	Qts	Xmax (mm)	Frq Range (Hz)	Magnet	Página
21SW1600Nd	21	1600	98	5	33	268	0,38	15	25-1200	Nd	12
18SW1600Nd	18	1600	97	5	32	205,7	0,33	10	25-1800	Nd	12
18P1200Nd/N	18	1200	98	4	37	198	0,34	9,5	25-2000	Nd	14
18P1000Nd	18	1000	98	4	40	178	0,41	8	25-2000	Nd	15
18P1000Fe	18	1000	98	4	40	163,2	0,39	8	25-2000	Ferr	16
18G550	18	900	98	4,5	36	210	0,37	9	25-1500	Ferr	19
18P80Nd	18	800	100	4	30	411	0,29	7,5	25-4000	Nd	17
18LX60V2	18	700	98	4	35	236,52	0,476	9	25-1500	Ferr	20
18G40	18	700	97	4	32	323	0,41	7	25-1500	Ferr	21
SM118/N	18	400	97	3	36	300	0,49	5,5	30-3000	Ferr	66
15SW1300Nd	15	1300	97	4	44	89,6	0,36	10	25-1800	Nd	13
15P1200Nd/N	15	1200	97	4	42	84,7	0,32	9,5	25-1800	Nd	14
15P1000Nd	15	1000	97	4	45	88	0,34	8	30-2000	Nd	15
15P1000Fe	15	1000	97	4	45	85,9	0,37	8	30-2000	Ferr	17
15P80Nd	15	800	100	4	35	217	0,21	7,5	30-5000	Nd	18
15G450/N	15	750	98	4,5	45	115	0,32	6,5	30-1500	Ferr	19
15LX60V2	15	700	98	4	42	105,53	0,44	9	30-1500	Ferr	20
15G40	15	700	97	4	37	149	0,3	7	25-1500	Ferr	22
15LW30	15	500	99	3	32	325	0,28	7	35-4000	Nd	26
SM115/K	15	500	98	4	27	345	0,25	7,5	25-2000	Ferr	67
15M1100	15	450	101	3	48	166	0,28	2	30-4000	Ferr	30
15MWNd	15	400	99	2,5	42	176	0,38	6,5	30-3500	Nd	25
SM115/N	15	400	98	3	29	430	0,31	5,5	30-2000	Ferr	66
12SW1300Nd	12	1300	96	4	45	45	0,26	10	25-1800	Nd	13
12P1000Nd	12	900	96	4	47	49	0,26	8	30-2500	Nd	16
12P80Nd	12	700	101	4	45	95,7	0,15	7,5	25-4000	Nd	18
12LX60V2	12	700	96	4	49	43	0,38	9	35-2000	Ferr	21
12G40	12	500	97	3	44	81	0,3	5	35-4000	Ferr	22
12M1100	12	450	100	3	58	64	0,22	2	40-4000	Ferr	31
12LW30/N	12	450	96	3	38	109	0,29	5	35-5000	Nd	27
SM112/N	12	400	97	3	38	138	0,27	5,5	35-6000	Ferr	67
SM212	12	350	98	2,5	40	150	0,38	7	45-6000	Ferr	68
12MWNd	12	350	97	2,5	43	100	0,32	7,5	35-5000	Nd	25
12B100/R	12	150	94	4	29	154	0,3	3	25-4000	Ferr	76
12BR70	12	125	95	2	35	135	0,36	6	25-4000	Ferr	76
10LW30/N	10	450	94	3	38	56	0,23	5	35-3500	Nd	27
10G40	10	400	96	3	55	33	0,31	6	45-4000	Ferr	23
10M1100	10	350	101	3	89	20	0,25	2	70-4000	Ferr	31
10MWNd	10	350	95	2,5	49	40,7	0,32	7,5	45-5000	Nd	26
SM110/N	10	200	95	2	43	65	0,35	4	45-6500	Ferr	68
10BR60	10	100	92	2	42	47	0,47	6	30-5000	Ferr	77
CM-10	10	125	95,3	1,5	61	40,7	0,51	6,5	40-5000	Ferr	34
8P300Fe	8	200	95,4	2,5	61	21,5	0,335	6	70-2000	Ferr	28
8M1100	8	250	98	2	100	13	0,388	1	150-7000	Ferr	32
8G40	8	250	95	2,5	70	17	0,36	4,5	65-6000	Ferr	23
8LW30	8	250	95	2,5	70	16	0,37	4,5	65-6000	Nd	28
SM108	8	150	95	2	69	16	0,37	4	65-6000	Ferr	69
8M70-V2	8	90 (RMS)	95	1,5	90	10,54	0,62	1	120-9000	Ferr	79
8WOOFFER/P-V2	8	50 (RMS)	90	1	35	59	0,50	4,5	30-6500	Ferr	78
8BR40/N	8	50 (RMS)	90	1	33,2	61,35	0,57	6	35-6000	Ferr	77
CM-8B	8	100	92,4	1,5	73	14,6	0,62	6,7	40-5000	Ferr	34
BF-8R	8	50	90	1	52	29,6	0,92	5,7	30-6000	Ferr	35
6P200Fe	6,5	200	92,7	2	65	9,13	0,31	5,5	60-9000	Ferr	29
6M1100	6	250	97	2	100	5	0,502	1	150-6000	Ferr	32
6P200Nd	6	200	92	2	56	11,9	0,29	5,5	60-9000	Nd	29
605Nd	6	125	100	1,5	150	3	0,31	1	150-8000	Nd	33
6MI90	6	125	98	1,5	120	7	0,44	1	150-8000	Ferr	33

BAJA Y MEDIA FRECUENCIA / LOW & MID FREQUENCY

MODEL	DIAM (inches)	POT(WAES)	SENSITIVITY(dB 2.83V)	COIL DIAM	Fs (Hz)	Vas (liter)	Qts	Xmax (mm)	Frq Range (Hz)	Magnet	Página
6G40Nd	6	170	95	2	88	7,2	0,33	1	70-9000	Nd	24
6B30/P	6	50	90	1	55	18	0,62	4	50-12000	Ferr	79
CM-6	6,5	80	90,7	1,5	138	2,47	0,93	2,5	150-6000	Ferr	35
5P200Fe	5	200	92,4	1,5	73	5,6	0,293	5,5	80-2000	Ferr	28
5G40Nd	5	100	93	1,5	110	3,1	0,31	1	90-17000	Nd	24
5MP60/N	5	50	91	1	60	9,8	0,29	4	50-12000	Ferr	80
5M30	5	50	91	1	85	6	0,61	1	60-12000	Ferr	80
SK07	-	50	-	3	47	-	-	-	20-100	Nd	80

MOTORES DE COMPRESIÓN / COMPRESSION DRIVERS

MODEL	TH DIAM(In.)	POT(WAES)	SENSITIVITY(dB 2.83V)	COIL DIAM. (In.)	DOME MATERIAL	XOVER (12dB/oct)	Frq Range (Hz)	Magnet	Weight (Kg)	Página
CP750Nd	2	60(0.8-1.5kHz)/80(>1.5kHz)	112	2,87	Composite (Titanium/polyester)	>800Hz	0,6k-20k	Nd	3,5	44
CP750/Ti	2	70(0.8-1.5kHz)/90(>1.5kHz)	110	2,87	Composite (Titanium/polyester)	>800Hz	0,6k-20k	Ferr	7,05	45
CP800/Ti	2	65(0.5-1.5kHz)/130(>1.5kHz)	112	4	Titanium	>500Hz	0,5k-20k	Ferr	10,3	44
CP850Nd	2	65(0.5-1.5kHz)/130(>1.5kHz)	112	4	Titanium	>500Hz	0,5k-20k	Nd	4,4	43
SMC60	2	60(0.8-1.5kHz)/80(>1.5kHz)	109	2,87	Composite (Titanium/polyester)	>800Hz	0,5k-18k	Ferr	4,5	69
CP855Nd	1,4	100(>500Hz)/150(>1.2kHz)	112	4	Titanium	>500Hz	0,5k-20k	Nd	4,3	45
CP755Nd	1,4	60(0.8-1.5kHz)/80(>1.5kHz)	112	2,87	Composite (Titanium/polyester)	>800Hz	0,6k-20k	Nd	2,96	46
CP755Nd/Al	1,4	60(0.8-1.5kHz)/80(>1.5kHz)	112	2,87	Composite (aluminium/polyester)	>800Hz	0,6k-20k	Nd	2,96	46
CP755/Ti	1,4	70(0.8-1.5kHz)/90(>1.5kHz)	110	2,87	Composite (Titanium/polyester)	>800Hz	0,6k-20k	Ferr	6,75	47
SMC65	1,4	50(0.8-1.5kHz)/70(>1.5kHz)	107	2,87	Composite (Titanium/polyester)	>800Hz	0,7k-18k	Ferr	4,2	70
SMC65Nd	1,4	50(0.8-1.5kHz)/70(>1.5kHz)	108	2,87	Composite (Titanium/polyester)	>800Hz	0,6k-20k	Nd	2,2	70
CD1014Nd	1,4	70	110	1,75	PM4	>1,2kHz	0,7k-19k	Nd	1,9	47
CD10Nd	1	70	111	1,75	PM4	>1,2kHz	0,7k-19k	Nd	1,2	49
CD10Fe	1	70	109	1,75	PM4	>1,2kHz	0,7k-19k	Ferr	1,3	49
CP380/M	1	50(1,2-2kHz)/70(>2kHz)	107	1,75	Polyester	>1,2kHz	0,8k-20k	Ferr	3,25	48
CP385Nd	1	40(1,2-2kHz)/60(>2kHz)	107	1,75	Polyester	>1,2kHz	0,8k-20k	Nd	1,35	48
SMC1050/N	1	40(1,2-2kHz)/60(>2kHz)	108	1,75	Polyester	>1,2kHz	0,8k-18k	Ferr	2,2	71
SMC280/ST	1	50	105	1,75	Polyester	>1,5kHz	0,8k-18k	Ferr	1,3	71
SMC225Nd	1	40	108	1,75	Polyester	>1,5kHz	0,8k-20k	Nd	0,7	72
SMC8060	80x60°	50	107	1,75	Polyester	>1,5kHz	0,8k-18k	Ferr	1,5	72

TWEETERS DIAFRAGMA PLEGADO / PLEATED DIAPHRAGM TWEETERS

MODEL	POT(WAES)	SENSITIVITY(dB 2.83V)	XOVER (12dB/oct)	Diaphragm material	Frq Range (Hz)	Magnet	Weight (Kg)	Página
TPL150/H	80	102	>1KHz	Kapton	0,7k-23k	Nd	3,68	50
TPL150	80	99	>1KHz	Kapton	1k-23k	Nd	2,18	50

TWEETERS DE COMPRESIÓN / COMPRESSION TWEETERS

MODEL	TH DIAM. (Inches)	POT(WAES)	SENSITIVITY (dB 2.83V)	COIL DIAM.	XOVER (12dB/oct)	Frq Range (Hz)	Magnet	Weight (Kg)	Página
CP25	100x60°	25	104	1,5	5k	2,5k-20k	Ferr	1,7	52
CP22	40° conical	25	107	1,5	5k	4k-20k	Ferr	1,6	53
CP21/F	140x40°	25	105	1,5	5k	3,5k-20k	Ferr	1,7	53
CP16	40° conical	15	105	1	6k	3k-20k	Ferr	0,76	54
CP12/N	40° conical	15	107	1	6k	3k-20k	Ferr	0,75	54
CP09	90x60°	15	104	1	6k	2k-20k	Ferr	0,75	55

TWEETERS DE CÚPULA / DOME TWEETERS

MODEL	TH DIAM(Inches)	POT(WAES)	SENSITIVITY(dB 2.83V)	COIL DIAM	XOVER (12dB/oct)	Frq Range (Hz)	Magnet	Weight (Kg)	Página
MC115	120°	25	91	1,75	800	600-12,5k	Ferr	1,325	81
T2010	80°	12	92	1	2k	1,5k-20k	Ferr	0,6	82
T2030	60°	15	95	1,75	2k	1,5k-20k	Ferr	0,7	82
SMC2012/N	50x35°	15	101	1	1,5k	1k-20k	Nd	0,5	73

COAXIALES / COAXIALS

MODEL	DIAM (inches)	POT(WAES)	SENSITIVITY(dB 2.83V)	COIL DIAM	Fs (Hz)	Frq Range (Hz)	Magnet	Weight (Kg)	Página
15CXA400Nd	15	400/90	98/105	4/2	40	50-20000	Nd	6,8	38
15XA38Nd	15	350/90	99/105	4/2,87	33	25-3500/0,5k-20k	Nd	6,8	38
15KX	15	300/100	99/105	3/2,8	45	25-3000/0,8k-17k	Ferr	8,25	40
12CXA400Nd	12	400/90	98/105	4/2	45	50-20000	Nd	6,33	39
12XA30Nd	12	350/90	98/105	4/2,87	35	35-4000/0,5k-20k	Nd	6,3	39
12KX	12	300/100	98/105	3/2,8	45	35-3000/0,8k-17k	Ferr	7,85	40
10XC25	10	250/40	98/105	2,5/1,75	53	55-8000/0,7k-20k	Ferr/Nd	5,1	41
8CX300Nd	8	250/50	96/102	2,5/1,75	57	40-20000	Nd	2,6	41
8XC20	8	170/40	98/105	2/1,75	75	65-7000/0,7k-20k	Ferr/Nd	3,7	42
8BX/N	8	100/20	92/102	1,5/1	57	60-20000	Ferr	2,9	81
6CX200Nd	6,5	200/40	92/102	2/1,75	65	60-20000	Nd	1,9	42
5CX200Nd	5	150/40	92,5/102	1,5/1,75	89	60-20000	Nd	1,85	43

BOCINAS / HORNS

MODEL	TH DIAM(Inch)	DISP HxV	Material	XOVER (12dB/oct)	Weight (Kg)	Página
TD590	2	90X40	Rigid Polyurethane Foam	800	1,2	56
TD460/N	2	60X40	Rigid Polyurethane Foam	800	2	57
TD595	1,4	90X40	Rigid Polyurethane Foam	800	1,2	56
TD385	1,4	80X50	Aluminum	800	1,2	57
TD365	1,4	60X50	Aluminum	800	1,2	58
TD194	1	90X40	Aluminum	1,2k	1	58
TD164	1	60X40	Aluminum	1,2k	1	59
TDWL4	0,47 x 8,19	90 x 20	Aluminum	800	1,5	55

FILTROS PASIVOS / PASSIVE FILTERS

MODEL	TYPE	POWER (W RMS)	XOVER/CUT OFF FREQ.	ATTENUATION SLOPE (LF/HF)	EQUALIZATION	HF ATTENUATION	Página
FD350	3 WAY	600	2 / 7 kHz	12 dB/Oct	-3 dB @ 3,5 kHz	0, -6 dB (MF & HF)	59
F300	3 WAY	300	800 / 5000 Hz	12 dB/Oct	0	0	59
3V HIFI	3 WAY	300	800 / 5000 Hz	12-12-6 dB/Oct	0	0	62
FD2XC1	2 WAY	600	2,2 kHz	12 dB/Oct	0	0, -1,5 dB	61
FD250	2 WAY	600	2 kHz	12 dB/Oct	-3 dB @ 3,5 kHz	0, -3, -6, -7,5 dB	60
FD2XC2	2 WAY	600	2 kHz	12 dB/Oct	0	0, -1,5 dB	61
FD2XA	2 WAY	600	1,8 kHz	12 dB/Oct	0	0, -1,5 dB	60
FD212	2 WAY	600	1,2 kHz	12 dB/Oct	-3 dB @ 3,5 kHz	0, -3, -6, -7,5 dB	60
F200	2 WAY	300	400 Hz	6-12 dB/Oct	0	0	60
2V HIFI	2 WAY	300	3 kHz	6-12 dB/Oct	0	0	62
FD2CX	2 WAY	500	2,6 kHz	24 dB/Oct	0	0	61
F102	HIGH PASS	300	8 kHz	18 dB/Oct	0	0, -3 dB	62
F100	HIGH PASS	300	6,3 kHz	18 dB/Oct	0	0, -3 dB	62
F130	HIGH PASS	300	3 kHz	18 dB/Oct	0	0, -3 dB	61

MOTORES CON GUÍA DE ONDAS / COMPRESSION DRIVERS WITH WAVES GUIDE

MODEL	TH DIAM (inches)	POT(WAES)	SENSITIVITY(dB 2.83V)	COIL DIAM (inches)	XOVER (12dB/oct)	Frq Range (Hz)	Magnet	Weight (Kg)	Página
WL5	1,4	50(0,8-1,5kHz)/70(>1,5kHz)	108	2,87	>800	0,6k-20k	Nd	5,65	51
WL4	0,8	40	105	1,75	>1500	0,7k-20k	Nd	2,6	51
WL3	0,8	40	105	1,75	>1500	0,7k-20k	Nd	2,4	52

AMPLIA GAMA / FULL RANGE

MODEL	TIPO	DIAM (inches)	POT(WAES)	SENSITIVITY(dB 2.83V)	Frq Range (Hz)	Magnet	Weight (Kg)	Página
12GA50	FULL RANGE	12	250	102	70-18000	Ferr	3,55	36
10AG/N	FULL RANGE	10	100	97	60-17K	Ferr	1,55	36
8AG/N	FULL RANGE	8	35	96	60-18K	Ferr	1,5	37
5B30CX	FULL RANGE	5	25	86	55-20000	Ferr	0,72	37

PRO SERIE SW1600Nd

- Sistema de ventilación HELICEX®
- 1600 W AES de admisión real de potencia.
- Alta sensibilidad: 97 dB @ 2,83 V
- Baja frecuencia de resonancia: 32 Hz
- Membrana exclusiva Beyma NCR (Neck Coupling Reinforcement)
- Tecnología exclusiva Beyma MMSS (Mechanical Mirror Suspensión System)
- Gran desplazamiento lineal y controlado: Xmax ±10mm,
- Capacidad masiva de desplazamiento mecánico: Xdamage ±60mm
- Bobina de 5" con tecnología DUO

PRO SERIE P1200Nd

- Sensibilidad: 98 dB @ 2,83 V
- Capacidad real de potencia eléctrica aplicada de 1200 W AES
- Circuito de convección forzada de aire para tener una compresión de potencia mínima.
- Frecuencia de resonancia baja para su aplicación como sub-grave: 37 Hz.
- Desplazamiento controlado extendido ± 9,5 milímetros Xmax.
- Capacidad mecánica masiva de desplazamiento: 2" Xpp (52 mm).
- Tecnología exclusiva Beyma MMSS (Mechanical Mirror Suspensión System)
- Doble bobina de cobre con deabanado exterior e interior de 4"

PRO SERIE P1000Nd

- Sensibilidad: 98 dB @ 2,83 V
- Capacidad real de potencia eléctrica aplicada de 1000 W AES
- Circuito de convección forzada de aire para tener una compresión de potencia mínima.
- Frecuencia de resonancia baja para su aplicación como sub-grave: 40 Hz.
- Desplazamiento controlado extendido ± 8 milímetros Xmax.
- Capacidad mecánica masiva de desplazamiento: 2" Xpp (52 mm).
- Tecnología exclusiva Beyma MMSS (Mechanical Mirror Suspensión System)
- Doble bobina de cobre con deabanado exterior e interior de 4"

PRO SERIE P1000Fe

- Sensibilidad: 98 dB @ 2,83 V
- Capacidad real de potencia eléctrica aplicada de 1000 W AES
- Circuito de convección forzada de aire para tener una compresión de potencia mínima.
- Frecuencia de resonancia baja para su aplicación como sub-grave: 40 Hz.
- Desplazamiento controlado extendido ± 8 milímetros Xmax.
- Capacidad mecánica masiva de desplazamiento: 2" Xpp (52 mm).
- Tecnología exclusiva Beyma MMSS (Mechanical Mirror Suspensión System)
- Doble bobina de cobre con deabanado exterior e interior de 4"
- Circuito magnético de ferrita.

PRO SERIE P80Nd

- 100dB@1W, 1m con una eficiencia del 4%
- 800W AES de capacidad de potencia
- Rango de frecuencias extremadamente amplio
- Ideal para sistemas de alta eficiencia, como bocinas plegadas o paso-banda

PRO SERIE G50

- Potencia admisible alta (> 750 W AES)
- Bobina de 4,5" realizada con materiales de alta calidad
- Gran Xmax que permite amplios desplazamientos de la bobina
- Sistema de doble centrador con comportamiento térmico mejorado: mantiene las propiedades mecánicas en altas potencias
- Disipación térmica adicional gracias al uso de un refrigerador de metal
- Diseñados para aplicaciones exigentes de graves y subgraves

PRO SERIE LX60V2

- Alto manejo de potencia: 700 w AES
- Alta sensibilidad: 98 dB
- Circuito magnético optimizado por FEA (Análisis Elementos Finitos)
- Diseñados con tecnología MMSS para obtener control, linealidad y baja distorsión armónica.
- Centrador de CONEX para una mayor resistencia y consistencia
- Tratamiento impermeable para ambas caras del cono
- Bobina 4" DUO doble capa bobinado interior/exterior
- Gran desplazamiento lineal y controlado: Xmax ± 9 mm.
- Capacidad masiva de desplazamiento mecánico: Xdamage ± 58mm

PRO SERIE G40

- Potencia admisible alta
- Bobina de hilo de cobre con soporte de fibra de vidrio
- Ancho de bobinado óptimo para un comportamiento lo más lineal posible
- Sistema de doble centrador con comportamiento térmico mejorado: mantiene las propiedades mecánicas en altas potencias
- Diseñados para aplicaciones de graves

PRO SERIE MWNd

- Cono resistente a la humedad.
- Bobina de cobre de 2,5"
- Nuevo diseño de carcasa ultra-resistente
- Sistema de refrigeración de convección forzada
- Conjunto magnético extremadamente ligero
- Diseño conjunto del sistema de suspensiones para una capacidad de desplazamiento óptima
- Ideales para sistemas de dos vías compactos, con grave profundo y alta sensibilidad en medios

PRO SERIE Nd LW30

- Altavoces de graves de neodimio ligeros
- Bobina de cobre con soporte de fibra de vidrio
- Mejora de la disipación térmica gracias a un nuevo diseño de la parte posterior
- Diseñados para aplicaciones de graves

PRO SERIE P200

- Altavoces de alta potencia de tamaño pequeño
- Respuesta extendida en graves
- Suspensión de goma y baja Fs
- Tecnología exclusiva Beyma MMSS para alta linealidad en gran excursión y baja distorsión armónica.
- Centrador de Conex para una mayor consistencia en condiciones de trabajo muy exigentes.
- Respuesta en frecuencia de alta linealidad y gran calidad sonora también en frecuencias medias gracias al uso de casquillo de cobre.
- Ideal para aplicaciones compactas o de instalación.

PRO SERIE M1100

- Rendimiento muy elevado
- Respuesta en frecuencia extensa y extremadamente lineal
- Baja distorsión armónica
- Bobina de hilo de aluminio con soporte de fibra de vidrio
- Conjunto magnético voluminoso que mejora la disipación térmica
- Diseñados para una reproducción de alta calidad de las frecuencias medias

PRO SERIE Nd/M

- Altavoces de medios ligeros y de alto rendimiento (> 100 dB)

- Rendimiento máximo disponible en un altavoz de radiación directa (8.8%)
- Bobina de hilo de aluminio con soporte de fibra de vidrio
- Baja distorsión armónica
- Diseñados para una reproducción de alta calidad de las frecuencias medias

PRO ALTAVOCOS DE AMPLIA GAMA

- Sensibilidad excelente (102 dB)
- Potencia admisible alta (250 W AES)
- Bobina de 2" de hilo de aluminio con soporte de fibra de vidrio
- Baja distorsión armónica
- Altavoz de amplia gama adecuado para amplificadores de guitarra

PRO COAXIALES

- Amplia gama de frecuencia (hasta 20 kHz)
- Respuesta de frecuencia extremadamente lineal cuando se combinan con los filtros especialmente diseñados FD2XA y FD2XC
- Ecuilización adicional gracias al uso de la tecnología de resonadores acústicos
- Ideados para sistemas compactos profesionales

PRO MOTORES DE COMPRESION DE ALTA FRECUENCIA

- Disponibilidad de diferentes diámetros de garganta: 1", 1,4" y 2"
- Bobinas de hilo de aluminio con diámetros desde 1,75" a 4"
- Variedad de materiales de membrana: titanio, poliéster y otras combinaciones (suspensión de poliéster con cúpula de titanio)
- Amplia utilización de casquillos de cobre para reducir la distorsión
- Imanes de neodimio y de ferrita
- Sin duda, tenemos un motor de compresión para cualquier aplicación

PRO MOTORES LINE ARRAY

- Guía de ondas que cumple los requerimientos para las aplicaciones line array
- Boca de salida rectangular en diferentes tamaños: 5"x1", 4"x0,5" y 3"x0,4"
- Alta sensibilidad (entre 105 dB y 108 dB, dependiendo del modelo)
- Conjunto magnético de neodimio (alto rendimiento y bajo peso)
- Acoplamiento acústico efectivo hasta 18 kHz
- Diseñado para la reproducción de medias y altas frecuencias en las aplicaciones line array

PRO TWEETERS DE COMPRESION

- Sensibilidad excelente (entre 104 y 107 dB)
- Bobinas de hilo de aluminio con diámetro desde 1" a 1,5"
- Membranas de aluminio ligeras
- Trompetas integradas para aumentar el rendimiento y el control de la directividad
- Conjuntos móviles de fácil sustitución in situ sin necesidad de soldar
- Diseñados para una reproducción de gran calidad de las altas frecuencias

PRO BOCINAS DE DIRECTIVIDAD CONSTANTE

- Disponibilidad de diferentes diámetros de garganta: 1", 1,4" y 2"
- Dos ángulos de cobertura diferentes para cada tamaño de trompeta; 90° x 40° y 60° x 40°
- Materiales diversos: aluminio, espuma de poliuretano y resina sintética
- Control de la directividad preciso hasta bajas frecuencias (alrededor de 800 Hz)

PRO FILTROS

- Filtros pasivos de alta calidad hechos a mano
- Diferentes topologías: 3 vías, 2 vías y paso alto
- Componentes de alta potencia
- Atenuación y ecualización opcional en la mayoría de los modelos

PRO SW1600Nd SERIES

- HELICEX® cooling technology
- Real 1600 W AES power capacity
- High Sensitivity: 97 dB @ 2,83V
- Low resonance frequency: 32 Hz.
- Membrana esclusiva Beyma NCR (Neck Coupling Reinforcement)
- Exclusive Beyma Mechanical Mirror Suspension System (MMSS)
- Extended controlled displacement: Xmax ± 10 mm.
- Massive mechanical displacement capability: Xdamage ± 60mm.
- 5" DUO double inner/outer voice coil winding

PRO P1200Nd SERIES

- Sensitivity > 98 dB @ 2,83 V
- Real 1200 W AES power capacity.
- Forced air convection circuit for low power compression.
- Low resonance frequency: 37 Hz.
- Extended controlled displacement: Xmax ± 9.5 mm.
- Massive mechanical displacement capability: 2" Xpp (52mm).
- Exclusive Beyma Mechanical Mirror Suspension System (MMSS)
- 4" double inner/outer voice coil winding.

PRO P1000Nd SERIES

- High Sensitivity > 98 dB @ 2,83 V
- 1000 W AES power capacity.
- Forced air convection circuit for low power compression.
- Low resonance frequency: 40 Hz.
- Extended controlled displacement: Xmax ± 8 mm.
- Massive mechanical displacement capability: 2" Xpp (52 mm).
- Exclusive Beyma Mechanical Mirror Suspension System (MMSS)
- 4" double inner/outer voice coil winding.

PRO P1000Fe SERIES

- High Sensitivity > 98 dB @ 2,83 V
- 1000 W AES power capacity.
- Forced air convection circuit for low power compression.
- Low resonance frequency: 40 Hz.
- Extended controlled displacement: Xmax ± 8 mm.
- Massive mechanical displacement capability: 2" Xpp (52 mm).
- Exclusive Beyma Mechanical Mirror Suspension System (MMSS)
- 4" double inner/outer voice coil winding.
- Ferrite magnetic circuit.

PRO P80Nd SERIES

- 100 dB @ 1W, 1m with 4% efficiency.
- 800 W AES power handling.
- Wide usable frequency range.
- Xmax of 7.5 mm, usable from 35 Hz.
- Ideal for horn-loaded, highly efficient systems.

PRO G50 SERIES

- High power handling (> 750 W AES)
- 4.5" edgewound wire voice coil made of high quality materials
- Large Xmax allowing long voice coil displacements
- Dual spider configuration of improved temperature behaviour
- Additional heat dissipation due to the use of a metal intercooler
- Designed for high demanding subwoofer and woofer applications

PRO LX60V2 SERIES

- High power handling: 700 w AES
- High sensitivity: 98 dB
- FEA optimized magnetic circuit
- Designed with MMSS technology for high control, linearity and low harmonic distortion.
- CONEX spider for higher resistance and consistency
- Waterproof treatment for both sides of the cone
- 4" DUO double layer inner/outer voice coil
- Extended controlled displacement: Xmax ± 9 mm.
- Massive mechanical displacement capability: Xdamage ± 58mm

PRO G40 SERIES

- High power handling
- Edgewound copper voice coil with polyamide fiber glass former
- Optimum winding length for increased linear excursion
- Dual spider configuration of improved temperature behaviour: retain good mechanical properties at high power
- Designed for woofer applications

PRO MWNd SERIES

- Weather resistant paper cone.
- 2.5" copper voice coil.
- Newly designed aluminium frame.
- Forced convection cooling system.
- Extremely lightweight magnetic circuit
- Matched spider/suspension system for improved displacement capability.
- Ideal for compact two-way systems with good low end and high sensitivity in the midrange.

PRO Nd LW30 SERIES

- Lightweight neodymium bass drivers
- Copper voice coil with polyamide fiber glass former
- Improved heat dissipation due to a new design back cover
- Designed for woofer applications

PRO P200 SERIES

- High power small size loudspeakers
- Extended low frequency response
- Rubber surround and low Fs
- Exclusive Beyma MMSS technology for high linearity in high excursion and low harmonic distortion.
- Conex spider for higher consistency in demanding working conditions.
- High linearity in frequency response and excellent sound quality also in mid frequencies thanks to the use of copper ring.
- Excellent choice for compact applications or installation.

PRO MI100 SERIES

- Very high efficiency
- Extended and extremely linear frequency response
- Low harmonic distortion
- Edgewound aluminium voice coil with polyamide fiber glass former
- Large magnetic assembly to provide efficient heat dissipation
- Designed for high quality mid-frequency reproduction

PRO Nd/M SERIES

- Lightweight high efficiency neodymium mid drivers (> 100 dB)
- Highest efficiency available on a direct radiator (8.8 %)
- Edgewound aluminium voice coil with polyamide fiber glass former

- Low harmonic distortion
- Designed for high quality mid-frequency reproduction

PRO FULL RANGE LOUDSPEAKERS

- Superb sensitivity (102 dB)
- High power handling (250 w AES)
- 2" aluminium voice coil with polyamide fiber glass former
- Low harmonic distortion
- Full range loudspeaker suitable for guitar amplification applications

PRO COAXIALS

- Extended frequency range (up to 20 kHz)
- Extremely linear frequency response when combined with specially designed filters FD2XA and FD2XC
- Additional equalization by acoustic resonators technology
- Intended for compact professional systems

PRO HIGH FREQUENCY COMPRESSION DRIVERS

- Different throat diameters available: 1", 1.4" and 2"
- Edgewound aluminium voice coils from 1.75" to 4" diameter
- Variety of diaphragm materials: titanium, mylar and hybrid combinations (mylar surround with titanium dome)
- Extensive use of copper shorting rings to reduce distortion
- Neodymium and ceramic magnets
- Certainly, we have a compression driver for every application

PRO LINE ARRAY DRIVERS

- Wave guides fulfilling requirements for line array applications
- Rectangular exit of different sizes: 5"x1", 4"x0.5" and 3"x0.4"
- High sensitivity (between 105 dB and 108 dB, depending on model)
- Neodymium magnetic assemblies (high efficiency and low weight)
- Effective acoustical coupling up to 18 kHz
- Designed for the mid & high frequencies reproduction in line array applications

PRO COMPRESSION TWEETERS

- Superior sensitivity (between 104 and 107 dB)
- Edgewound aluminium voice coils ranging from 1" to 1.5" diameter
- Lightweight aluminium diaphragms
- Integrated horns to enhance efficiency and directivity control
- Field replaceable without soldering diaphragm assemblies
- Designed for demanding quality high frequency reproduction

PRO CONSTANT DIRECTIVITY HORNS

- Different throat diameters available: 1", 1.4" and 2"
- Two different coverage angles 90° x 40° and 60° x 40°
- Accurate directivity control down 800 Hz

PRO FILTERS

- Hand-made high quality passive filters
- Variety of topologies: 3 way, 2 way and high pass
- High power components
- Optional attenuation and equalization on most of the models

1600w

40//
years & beyond

18"

Nuevas tendencias, soluciones e innovaciones

Siempre en mente que la I+D es una pieza clave del "puzzle", así pues, nuestros continuos trabajos y estudios sobre todo aspecto relacionado con el transductor acústico son convenientemente aplicados al producto final de manera que se satisfagan los requerimientos de los más novedosos –e incluso futuros- sistemas acústicos.

Nuestro **nuevo diafragma PM4** es el resultado de nuestra investigación en nuevos materiales, realizada con el objetivo de proporcionar a nuestros productos las propiedades que les permitan superar cualquier altavoz disponible en el mercado. El CD10Nd y el CD10Fe son los **primeros motores de compresión en el campo del audio que utilizan este innovador material**, que confiere una respuesta sonora superior con un sonido natural inigualable así como la fuerza, la estabilidad y la resistencia que se requiere en las aplicaciones profesionales.

Otra muestra de nuestra metodología de I+D aplicado es la **tecnología exclusiva HELICEX®**; un sistema creado para proporcionar no solamente mayores capacidades de manejo de potencia a nuestros subgraves de gran excursión, sino también un comportamiento más constante y equilibrado del altavoz y, consecuentemente, un mejor comportamiento global del sistema de audio. Los resultados deben ser comprobados:

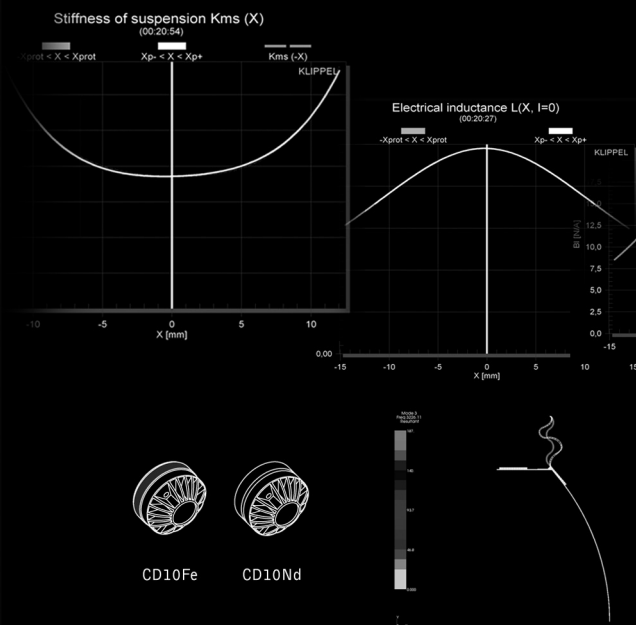
- **Menores pérdidas por compresión de potencia**, que permiten mantener el SPL final en valores más constantes dentro de un período de trabajo.
- **Comportamiento más estable y lineal** del conjunto móvil en grandes excursiones gracias al diseño del nuevo sistema, reduciendo descompensaciones ("offset") comúnmente asociadas a asimetrías en las componentes no-lineales (principalmente $B_l(x)$, $L(x)$ y $K_{ms}(x)$).
- **Respuesta dinámica**. La eficiencia del sistema HELICEX® permite el uso de bobinas móviles con diámetros de 5" ó 4" (dependiendo del modelo), lo que se traduce en valores de M_{ms} más bajos y por tanto un mejor control del conjunto móvil comparado con otros sistemas y productos equivalentes actualmente disponibles, así como un peso total del altavoz más bajo gracias a un dimensionamiento optimizado del conjunto mecánico.
- **Mayor capacidad de manejo de potencia**. El límite térmico se ha reducido de manera muy efectiva, permitiendo trabajar a la bobina móvil hasta 80°C por debajo de lo que trabaja con nuestro anterior sistema de circuito de aire por convección forzada. ¡Una reducción extrema!

Una familia completa de subgraves con tecnología HELICEX® están disponibles actualmente. Desde el compacto 12SW1300Nd hasta el poderoso 21SW1600Nd.

Gracias a las personas de todo el planeta que colaboran, desafían e inspiran a Beyma a buscar y desarrollar nuevas soluciones e innovaciones.

- HELICEX® es una marca registrada
- El sistema HELICEX está protegido por las leyes de patentes internacionales

THE COLDEST SPEAKER



NEW SOUNDING SKIN

* PM4 IS A HIGH-TECH POLYMER NEVER USED IN AUDIO B

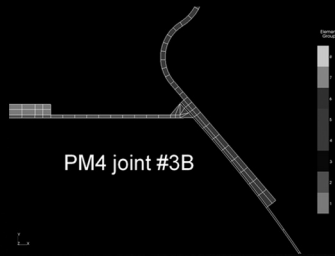
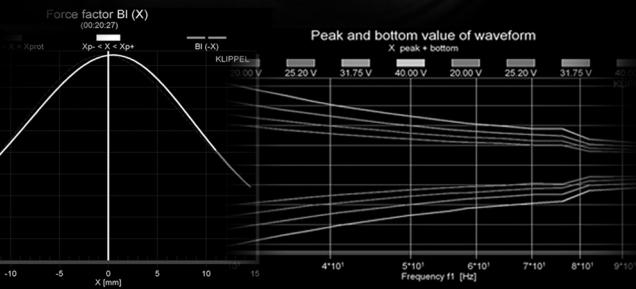
18SW1600Nd

WITH

helicex
TECHNOLOGY

DELIVERS

HIGHER POWER CAPACITY
LOWER POWER
COMPRESSION LOSSES
BALANCED AND CONSTANT
RESPONSE



NEW
COMPRESSION
DRIVERS
WITH
PM4
MEMBRANE*

DELIVERS

NATURAL SOUND
STRENGTH, STABILITY
AND RESISTANCE
RAISED POWER
CAPABILITIES



New trends, solutions and innovations

Always in mind that **R&D** is a key part of the "puzzle", and so, our constant works and studies on every aspect related to acoustical transducers, are conveniently applied to the final product in order to satisfy the latest -and even further- acoustic systems requirements.

Our new **PM4 diaphragm** is the result of our research in new materials, done with the aim of providing our products properties for being beyond any available loudspeaker in the market. The CD10Nd and CD10Fe are the **first compression drivers in the audio field using this innovative material**, which confers superb sonic response with unparalleled natural sound as well as the strength, stability and resistance that is required in the professional applications.

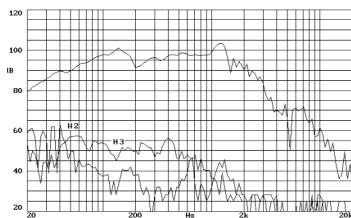
Another sample of our applied R&D methodology is the exclusive **HELICEX® Technology**; a system created to provide not just higher power handling capabilities to our long throw subwoofers, but also a more constant and balanced behaviour of the speaker and, consequently, a better overall performance of the audio system. The results are just to be tested:

- **Reduced power compression losses**, which allows to keep the final SPL in more constant values within a working period.
- More **stable and linear behaviour** of the moving assembly in long excursions thanks to the new system design, **reducing offset** issues commonly related to asymmetries in non-linear components (mainly $BI(x)$, $L(x)$ and $Kms(x)$).
- **Dynamic response**. The efficiency of the HELICEX® system allows to use 5" or 4" voice coil diameter (depending on model), which means lower Mms values and better control of the moving assembly compared to other systems and comparable products available nowadays, as well as lower overall weights of the speaker because of an optimized dimensioning of the mechanical assembly.
- **Higher power handling capacity**. The thermal limit is effectively reduced, allowing the voice coil to work 80°C below comparing to our previous air forced convection circuit. An extreme reduction!

A complete range of subwoofers with HELICEX® technology are available now. From the compact 12SW1300Nd to the powerful 21SW1600Nd.

Thanks to all of the people from all around the world who collaborate, challenge and inspire Beyma to search and develop new solutions and innovations.

- HELICEX® is a registered trademark
- HELICEX system is protected by International patent laws



Nota: respuesta de frecuencia medida en el eje con el altavoz fijado en panel infinito en el interior de cámara anecoica, 1w @ 1m.

Note: on axis frequency response measured with loudspeaker standing on infinite baffle in anechoic chamber, 1w @ 1m.

* También disponible a 4 Ohms. / Also available in 4 Ohms.

Especificaciones técnicas

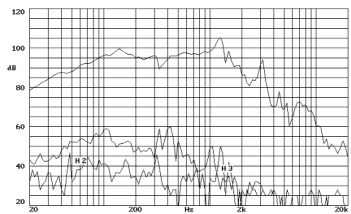
Diámetro nominal	Nominal diameter	540 mm. 21 in.
Impedancia nominal	Rated impedance	8 ohms.
Impedancia mínima	Minimum impedance	6.5 ohms.
Potencia admisible*	Power capacity*	1600 w AES
Potencia programa	Program power	3200 w
Sensibilidad	Sensitivity	98 dB 2.83v @ 1m @ 2m
Rango de frecuencias	Frequency range	25 - 1200 Hz
Frecuencia máxima recom.	Maximum recom. frequency	200 Hz
Volumen de caja recom.	Recom. enclosure vol.	100 / 250 l 3.5 / 8.75 ft. ³
Diámetro de bobina	Voice coil diameter	126 mm. 5 in.
Peso conjunto magnético	Magnetic assembly weight	7.59 kg. 16.7 lb.
Factor BL	BL factor	32 N / A
Masa móvil	Moving mass	0.370 kg.
Altura bobinado	Voice coil length	35 mm.
Anchura entrehierro	Air gap height	14 mm.
Desplazamiento máximo	X damage (peak to peak)	60 mm.

Technical specifications

Parámetros Thiele-Small**

Fs	Resonant frequency, fs	33 Hz
Re	D.C. Voice coil resistance, Re	5.3 ohms.
Qms	Mechanical Quality Factor, Qms	8.37
Qes	Electrical Quality Factor, Qes	0.40
Qts	Total Quality Factor, Qts	0.38
Vas	Equivalent Air Volume to Cms, Vas	268 l
Cms	Mechanical Compliance, Cms	62.8 μm / N
Rms	Mechanical Resistance, Rms	9.18 kg / s
η0 (%)	Efficiency, η0 (%)	2.31
Sd	Effective Surface Area, Sd	0.1734 m ²
Xmax	Maximum Displacement, Xmax	15 mm.
Vd	Displacement Volume, Vd	2514 cm ³
Le @ 1 kHz	Voice Coil Inductance, Le @ 1 kHz	3.7 mH

Thiele-Small parameters**



Nota: respuesta de frecuencia medida en el eje con el altavoz fijado en panel infinito en el interior de cámara anecoica, 1w @ 1m.

Note: on axis frequency response measured with loudspeaker standing on infinite baffle in anechoic chamber, 1w @ 1m.

* También disponible a 4 Ohms. / Also available in 4 Ohms.

Especificaciones técnicas

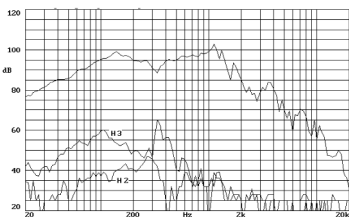
Diámetro nominal	Nominal diameter	460 mm. 18 in.
Impedancia nominal	Rated impedance	8 ohms.
Impedancia mínima	Minimum impedance	6.1 ohms.
Potencia admisible*	Power capacity*	1600 w AES
Potencia programa	Program power	3200 w
Sensibilidad	Sensitivity	97 dB 2.83v @ 1m @ 2m
Rango de frecuencias	Frequency range	25 - 1800 Hz
Frecuencia máxima recom.	Maximum recom. frequency	200 Hz
Volumen de caja recom.	Recom. enclosure vol.	80 / 200 l 2.8 / 7 ft. ³
Diámetro de bobina	Voice coil diameter	126 mm. 5 in.
Peso conjunto magnético	Magnetic assembly weight	7.59 kg. 16.7 lb.
Factor BL	BL factor	29 N / A
Masa móvil	Moving mass	0.260 kg.
Altura bobinado	Voice coil length	25 mm.
Anchura entrehierro	Air gap height	14 mm.
Desplazamiento máximo	X damage (peak to peak)	60 mm.

Technical specifications

Parámetros Thiele-Small**

Fs	Resonant frequency, fs	32 Hz
Re	D.C. Voice coil resistance, Re	5.5 ohms.
Qms	Mechanical Quality Factor, Qms	11.74
Qes	Electrical Quality Factor, Qes	0.34
Qts	Total Quality Factor, Qts	0.33
Vas	Equivalent Air Volume to Cms, Vas	205.7 l
Cms	Mechanical Compliance, Cms	94.3 μm / N
Rms	Mechanical Resistance, Rms	4.46 kg / s
η0 (%)	Efficiency, η0 (%)	1.93
Sd	Effective Surface Area, Sd	0.1255 m ²
Xmax	Maximum Displacement, Xmax	10 mm.
Vd	Displacement Volume, Vd	1164 cm ³
Le @ 1 kHz	Voice Coil Inductance, Le @ 1 kHz	3.1 mH

Thiele-Small parameters**



Nota: respuesta de frecuencia medida en el eje con el altavoz fijado en panel infinito en el interior de cámara anecoica, 1w @ 1m.

Note: on axis frequency response measured with loudspeaker standing on infinite baffle in anechoic chamber, 1w @ 1m.

* También disponible a 4 Ohms. / Also available in 4 Ohms.

Especificaciones técnicas

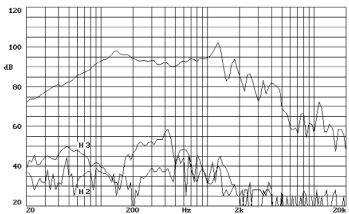
Diámetro nominal	Nominal diameter	380 mm. 15 in.
Impedancia nominal	Rated impedance	8 ohms.
Impedancia mínima	Minimum impedance	5.8 ohms.
Potencia admisible*	Power capacity*	1300 w AES
Potencia programa	Program power	2600 w
Sensibilidad	Sensitivity	97 dB 2.83v @ 1m @ 2rt
Rango de frecuencias	Frequency range	25 - 1800 Hz
Frecuencia máxima recom.	Maximum recom. frequency	200 Hz
Volumen de caja recom.	Recom. enclosure vol.	40 / 150 l 1.4 / 5.3 ft. ³
Diámetro de bobina	Voice coil diameter	100 mm. 4 in.
Peso conjunto magnético	Magnetic assembly weight	6 kg. 13.2 lb.
Factor BL	BL factor	25.1 N / A
Masa móvil	Moving mass	0.160 kg.
Altura bobinado	Voice coil length	25 mm.
Anchura entrehierro	Air gap height	14 mm.
Desplazamiento máximo	X damage (peak to peak)	60 mm.

Technical specifications

Parámetros Thiele-Small**

Fs	Resonant frequency, fs	44 Hz
Re	D.C. Voice coil resistance, Re	5.2 ohms.
Qms	Mechanical Quality Factor, Qms	14.7
Qes	Electrical Quality Factor, Qes	0.37
Qts	Total Quality Factor, Qts	0.36
Vas	Equivalent Air Volume to Cms, Vas	89.6 l
Cms	Mechanical Compliance, Cms	81.5 μm / N
Rms	Mechanical Resistance, Rms	3.02 kg / s
η0 (%)	Efficiency, η0 (%)	1.99
Sd	Effective Surface Area, Sd	0.088 m ²
Xmax	Maximum Displacement, Xmax	10 mm.
Vd	Displacement Volume, Vd	836 cm ³
Le @ 1 kHz	Voice Coil Inductance, Le @ 1 kHz	3.45 mH

Thiele-Small parameters**



Nota: respuesta de frecuencia medida en el eje con el altavoz fijado en panel infinito en el interior de cámara anecoica, 1w @ 1m.

Note: on axis frequency response measured with loudspeaker standing on infinite baffle in anechoic chamber, 1w @ 1m.

* También disponible a 4 Ohms. / Also available in 4 Ohms.

Especificaciones técnicas

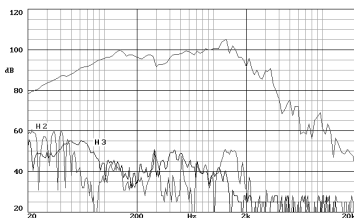
Diámetro nominal	Nominal diameter	300 mm. 12 in.
Impedancia nominal	Rated impedance	8 ohms.
Impedancia mínima	Minimum impedance	6.2 ohms.
Potencia admisible*	Power capacity*	1200 w AES
Potencia programa	Program power	2400 w
Sensibilidad	Sensitivity	96 dB 2.83v @ 1m @ 2rt
Rango de frecuencias	Frequency range	25 - 1800 Hz
Frecuencia máxima recom.	Maximum recom. frequency	200 Hz
Volumen de caja recom.	Recom. enclosure vol.	12 / 60 l 0.7 / 2.24 ft. ³
Diámetro de bobina	Voice coil diameter	100 mm. 4 in.
Peso conjunto magnético	Magnetic assembly weight	4.62 kg. 10.16 lb.
Factor BL	BL factor	25.3 N / A
Masa móvil	Moving mass	0.118 kg.
Altura bobinado	Voice coil length	25 mm.
Anchura entrehierro	Air gap height	14 mm.
Desplazamiento máximo	X damage (peak to peak)	60 mm.

Technical specifications

Parámetros Thiele-Small**

Fs	Resonant frequency, fs	45 Hz
Re	D.C. Voice coil resistance, Re	4.9 ohms.
Qms	Mechanical Quality Factor, Qms	12.07
Qes	Electrical Quality Factor, Qes	0.27
Qts	Total Quality Factor, Qts	0.26
Vas	Equivalent Air Volume to Cms, Vas	45 l
Cms	Mechanical Compliance, Cms	105.5 μm / N
Rms	Mechanical Resistance, Rms	2.77 kg / s
η0 (%)	Efficiency, η0 (%)	1.47
Sd	Effective Surface Area, Sd	0.055 m ²
Xmax	Maximum Displacement, Xmax	10 mm.
Vd	Displacement Volume, Vd	550 cm ³
Le @ 1 kHz	Voice Coil Inductance, Le @ 1 kHz	3.25 mH

Thiele-Small parameters**



Nota: respuesta de frecuencia medida en el eje con el altavoz fijado en panel infinito en el interior de cámara anecoica, 1w @ 1m.

Note: on axis frequency response measured with loudspeaker standing on infinite baffle in anechoic chamber, 1w @ 1m.

Especificaciones técnicas

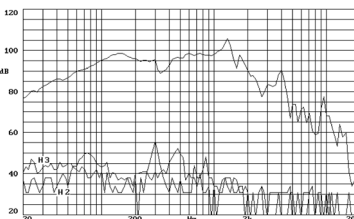
Diámetro nominal	Nominal diameter	460 mm. 18 in.
Impedancia nominal	Rated impedance	8 ohms.
Impedancia mínima	Minimum impedance	6 ohms.
Potencia admisible*	Power capacity*	1200 w AES
Potencia programa	Program power	2400 w
Sensibilidad	Sensitivity	98 dB 2.83v @ 1m @ 2π
Rango de frecuencias	Frequency range	25 - 2000 Hz
Volumen de caja recom.	Recom. enclosure vol.	80 / 200 l 2.8 / 7 ft. ³
Diámetro de bobina	Voice coil diameter	100 mm. 4 in.
Peso conjunto magnético	Magnetic assembly weight	6 kg. 13.2 lb.
Factor BL	BL factor	26.3 N / A
Masa móvil	Moving mass	0.199 kg.
Altura bobinado	Voice coil length	25 mm.
Anchura entrehierro	Air gap height	14 mm.
Desplazamiento máximo	X damage (peak to peak)	52 mm.

Technical specifications

Parámetros Thiele-Small**

Fs	Resonant frequency, fs	37 Hz
Re	D.C. Voice coil resistance, Re	5.3 ohms.
Qms	Mechanical Quality Factor, Qms	10.39
Qes	Electrical Quality Factor, Qes	0.35
Qts	Total Quality Factor, Qts	0.34
Vas	Equivalent Air Volume to Cms, Vas	198 l
Cms	Mechanical Compliance, Cms	93 μm / N
Rms	Mechanical Resistance, Rms	4.5 kg / s
η0 (%)	Efficiency, η0 (%)	2.7
Sd	Effective Surface Area, Sd	0.1225 m ²
Xmax	Maximum Displacement, Xmax	9.5 mm.
Vd	Displacement Volume, Vd	1164 cm ³
Le @ 1 kHz	Voice Coil Inductance, Le @ 1 kHz	2.3 mH

Thiele-Small parameters**



Nota: respuesta de frecuencia medida en el eje con el altavoz fijado en panel infinito en el interior de cámara anecoica, 1w @ 1m.

Note: on axis frequency response measured with loudspeaker standing on infinite baffle in anechoic chamber, 1w @ 1m.

Especificaciones técnicas

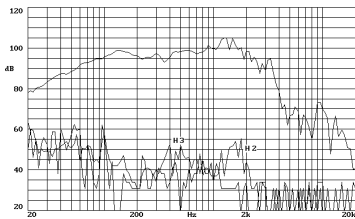
Diámetro nominal	Nominal diameter	380 mm. 15 in.
Impedancia nominal	Rated impedance	8 ohms.
Impedancia mínima	Minimum impedance	5.7 ohms.
Potencia admisible*	Power capacity*	1200 w AES
Potencia programa	Program power	2400 w
Sensibilidad	Sensitivity	97 dB 2.83v @ 1m @ 2π
Rango de frecuencias	Frequency range	25 - 1800 Hz
Volumen de caja recom.	Recom. enclosure vol.	40 / 150 l 1.4 / 5.3 ft. ³
Diámetro de bobina	Voice coil diameter	100 mm. 4 in.
Peso conjunto magnético	Magnetic assembly weight	6 kg. 13.2 lb.
Factor BL	BL factor	26.5 N / A
Masa móvil	Moving mass	0.165 kg.
Altura bobinado	Voice coil length	25 mm.
Anchura entrehierro	Air gap height	14 mm.
Desplazamiento máximo	X damage (peak to peak)	52 mm.

Technical specifications

Parámetros Thiele-Small**

Fs	Resonant frequency, fs	42 Hz
Re	D.C. Voice coil resistance, Re	5.2 ohms.
Qms	Mechanical Quality Factor, Qms	14.2
Qes	Electrical Quality Factor, Qes	0.32
Qts	Total Quality Factor, Qts	0.31
Vas	Equivalent Air Volume to Cms, Vas	84.7 l
Cms	Mechanical Compliance, Cms	83 μm / N
Rms	Mechanical Resistance, Rms	3.22 kg / s
η0 (%)	Efficiency, η0 (%)	1.88
Sd	Effective Surface Area, Sd	0.0855 m ²
Xmax	Maximum Displacement, Xmax	9.5 mm.
Vd	Displacement Volume, Vd	805 cm ³
Le @ 1 kHz	Voice Coil Inductance, Le @ 1 kHz	2.7 mH

Thiele-Small parameters**



Nota: respuesta de frecuencia medida en el eje con el altavoz fijado en panel infinito en el interior de cámara anecoica, 1w @ 1m.

Note: on axis frequency response measured with loudspeaker standing on infinite baffle in anechoic chamber, 1w @ 1m.

Especificaciones técnicas

Diámetro nominal	80 mm. 3.15 in.
Impedancia nominal	8 ohms.
Impedancia mínima	6.2 ohms.
Potencia admisible*	1000 w AES
Potencia programa	2000 w
Sensibilidad	98 dB 2.83v @ 1m @ 2rt
Rango de frecuencias	25 - 2000 Hz
Volumen de caja recom.	80 / 200 l 2.8 / 7 ft. ³
Diámetro de bobina	100 mm. 4 in.
Peso conjunto magnético	4.62 kg. 10.16 lb.
Factor BL	24.3 N / A
Masa móvil	0.195 kg.
Altura bobinado	21 mm.
Anchura entrehierro	12 mm.
Desplazamiento máximo	52 mm.

Technical specifications

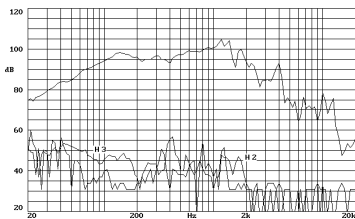
Nominal diameter	462 mm. 18 in.
Rated impedance	8 ohms.
Minimum impedance	6.2 ohms.
Power capacity*	1000 w AES
Program power	2000 w
Sensitivity	98 dB 2.83v @ 1m @ 2rt
Frequency range	25 - 2000 Hz
Recom. enclosure vol.	80 / 200 l 2.8 / 7 ft. ³
Voice coil diameter	100 mm. 4 in.
Magnetic assembly weight	4.62 kg. 10.16 lb.
BL factor	24.3 N / A
Moving mass	0.195 kg.
Voice coil length	21 mm.
Air gap height	12 mm.
X damage (peak to peak)	52 mm.

Parámetros Thiele-Small**

Fs	40 Hz
Re	5.1 ohms.
Qms	9.87
Qes	0.43
Qts	0.41
Vas	178 l
Cms	80 μm / N
Rms	5 kg / s
ηo (%)	2.6
Sd	0.1250 m ²
Xmax	8 mm.
Vd	1000 cm ³
Le @ 1 kHz	2.00 mH

Thiele-Small parameters**

Resonant frequency, fs	40 Hz
D.C. Voice coil resistance, Re	5.1 ohms.
Mechanical Quality Factor, Qms	9.87
Electrical Quality Factor, Qes	0.43
Total Quality Factor, Qts	0.41
Equivalent Air Volume to Cms, Vas	178 l
Mechanical Compliance, Cms	80 μm / N
Mechanical Resistance, Rms	5 kg / s
Efficiency, ηo (%)	2.6
Effective Surface Area, Sd	0.1250 m ²
Maximum Displacement, Xmax	8 mm.
Displacement Volume, Vd	1000 cm ³
Voice Coil Inductance, Le @ 1 kHz	2.00 mH



Nota: respuesta de frecuencia medida en el eje con el altavoz fijado en panel infinito en el interior de cámara anecoica, 1w @ 1m.

Note: on axis frequency response measured with loudspeaker standing on infinite baffle in anechoic chamber, 1w @ 1m.

Especificaciones técnicas

Diámetro nominal	380 mm. 15 in.
Impedancia nominal	8 ohms.
Impedancia mínima	6.3 ohms.
Potencia admisible*	1000 w AES
Potencia programa	2000 w
Sensibilidad	97 dB 2.83v @ 1m @ 2rt
Rango de frecuencias	30 - 2000 Hz
Volumen de caja recom.	40 / 150 l 1.4 / 5.3 ft. ³
Diámetro de bobina	100 mm. 4 in.
Peso conjunto magnético	4.62 kg. 10.16 lb.
Factor BL	24.3 N / A
Masa móvil	0.145 kg.
Altura bobinado	21 mm.
Anchura entrehierro	12 mm.
Desplazamiento máximo	52 mm.

Technical specifications

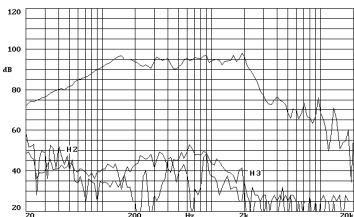
Nominal diameter	380 mm. 15 in.
Rated impedance	8 ohms.
Minimum impedance	6.3 ohms.
Power capacity*	1000 w AES
Program power	2000 w
Sensitivity	97 dB 2.83v @ 1m @ 2rt
Frequency range	30 - 2000 Hz
Recom. enclosure vol.	40 / 150 l 1.4 / 5.3 ft. ³
Voice coil diameter	100 mm. 4 in.
Magnetic assembly weight	4.62 kg. 10.16 lb.
BL factor	24.3 N / A
Moving mass	0.145 kg.
Voice coil length	21 mm.
Air gap height	12 mm.
X damage (peak to peak)	52 mm.

Parámetros Thiele-Small**

Fs	45 Hz
Re	5.1 ohms.
Qms	9.6
Qes	0.36
Qts	0.34
Vas	88 l
Cms	85 μm / N
Rms	4.3 kg / s
ηo (%)	2.2
Sd	0.0855 m ²
Xmax	8 mm.
Vd	684 cm ³
Le @ 1 kHz	2 mH

Thiele-Small parameters**

Resonant frequency, fs	45 Hz
D.C. Voice coil resistance, Re	5.1 ohms.
Mechanical Quality Factor, Qms	9.6
Electrical Quality Factor, Qes	0.36
Total Quality Factor, Qts	0.34
Equivalent Air Volume to Cms, Vas	88 l
Mechanical Compliance, Cms	85 μm / N
Mechanical Resistance, Rms	4.3 kg / s
Efficiency, ηo (%)	2.2
Effective Surface Area, Sd	0.0855 m ²
Maximum Displacement, Xmax	8 mm.
Displacement Volume, Vd	684 cm ³
Voice Coil Inductance, Le @ 1 kHz	2 mH



Nota: respuesta de frecuencia medida en el eje con el altavoz fijado en panel infinito en el interior de cámara anecoica, 1w @ 1m.

Note: on axis frequency response measured with loudspeaker standing on infinite baffle in anechoic chamber, 1w @ 1m.

Especificaciones técnicas

Diámetro nominal	Nominal diameter
Impedancia nominal	Rated impedance
Impedancia mínima	Minimum impedance
Potencia admisible*	Power capacity*
Potencia programa	Program power
Sensibilidad	Sensitivity
Rango de frecuencias	Frequency range
Volumen de caja recom.	Recom. enclosure vol.
Diámetro de bobina	Voice coil diameter
Peso conjunto magnético	Magnetic assembly weight
Factor BL	BL factor
Masa móvil	Moving mass
Altura bobinado	Voice coil length
Anchura entrehierro	Air gap height
Desplazamiento máximo	X damage (peak to peak)

Technical specifications

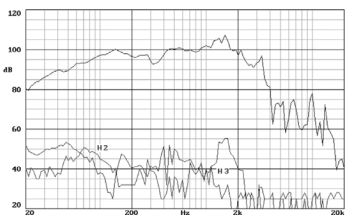
Nominal diameter	300 mm. 12 in.
Rated impedance	8 ohms.
Minimum impedance	6.5 ohms.
Power capacity*	900 w AES
Program power	1800 w
Sensitivity	96 dB 2.83v @ 1m @ 2π
Frequency range	30 - 2500 Hz
Recom. enclosure vol.	20 / 60 l 0.7 / 2.24 ft. ³
Voice coil diameter	100 mm. 4 in.
Magnetic assembly weight	4.62 kg. 10.16 lb.
BL factor	23.5 N / A
Moving mass	0.100 kg.
Voice coil length	21 mm.
Air gap height	12 mm.
X damage (peak to peak)	52 mm.

Parámetros Thiele-Small**

Fs	Resonant frequency, fs
Re	D.C. Voice coil resistance, Re
Qms	Mechanical Quality Factor, Qms
Qes	Electrical Quality Factor, Qes
Qts	Total Quality Factor, Qts
Vas	Equivalent Air Volume to Cms, Vas
Cms	Mechanical Compliance, Cms
Rms	Mechanical Resistance, Rms
η0 (%)	Efficiency, η0 (%)
Sd	Effective Surface Area, Sd
Xmax	Maximum Displacement, Xmax
Vd	Displacement Volume, Vd
Le @ 1 kHz	Voice Coil Inductance, Le @ 1 kHz

Thiele-Small parameters**

Resonant frequency, fs	47 Hz
D.C. Voice coil resistance, Re	5.1 ohms.
Mechanical Quality Factor, Qms	7.89
Electrical Quality Factor, Qes	0.27
Total Quality Factor, Qts	0.26
Equivalent Air Volume to Cms, Vas	49 l
Mechanical Compliance, Cms	115 μm / N
Mechanical Resistance, Rms	3.7 kg / s
Efficiency, η0 (%)	1.8
Effective Surface Area, Sd	0.0550 m ²
Maximum Displacement, Xmax	8 mm.
Displacement Volume, Vd	440 cm ³
Voice Coil Inductance, Le @ 1 kHz	2 mH



Nota: respuesta de frecuencia medida en el eje con el altavoz fijado en panel infinito en el interior de cámara anecoica, 1w @ 1m.

Note: on axis frequency response measured with loudspeaker standing on infinite baffle in anechoic chamber, 1w @ 1m.

Especificaciones técnicas

Diámetro nominal	Nominal diameter
Impedancia nominal	Rated impedance
Impedancia mínima	Minimum impedance
Potencia admisible*	Power capacity*
Potencia programa	Program power
Sensibilidad	Sensitivity
Rango de frecuencias	Frequency range
Volumen de caja recom.	Recom. enclosure vol.
Diámetro de bobina	Voice coil diameter
Peso conjunto magnético	Magnetic assembly weight
Factor BL	BL factor
Masa móvil	Moving mass
Altura bobinado	Voice coil length
Anchura entrehierro	Air gap height
Desplazamiento máximo	X damage (peak to peak)

Technical specifications

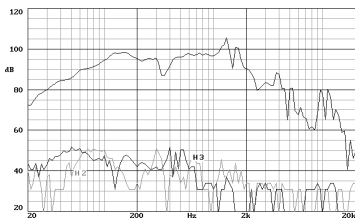
Nominal diameter	460 mm. 18 in.
Rated impedance	8 ohms.
Minimum impedance	6.2 ohms.
Power capacity*	1000 w AES
Program power	2000 w
Sensitivity	98 dB 2.83v @ 1m @ 2π
Frequency range	25 - 2000 Hz
Recom. enclosure vol.	80 / 200 l 2.8 / 7 ft. ³
Voice coil diameter	100 mm. 4 in.
Magnetic assembly weight	10.8 kg. 23.76 lb.
BL factor	26 N / A
Moving mass	0.215 kg.
Voice coil length	21 mm.
Air gap height	12 mm.
X damage (peak to peak)	52 mm.

Parámetros Thiele-Small****

Fs	Resonant frequency, fs
Re	D.C. Voice coil resistance, Re
Qms	Mechanical Quality Factor, Qms
Qes	Electrical Quality Factor, Qes
Qts	Total Quality Factor, Qts
Vas	Equivalent Air Volume to Cms, Vas
Cms	Mechanical Compliance, Cms
Rms	Mechanical Resistance, Rms
η0 (%)	Efficiency, η0 (%)
Sd	Effective Surface Area, Sd (m ²)
Xmax	Maximum Displacement, Xmax
Vd	Displacement Volume, Vd
Le @ 1 kHz	Voice Coil Inductance, Le @ 1 kHz

Thiele-Small parameters**

Resonant frequency, fs	40 Hz
D.C. Voice coil resistance, Re	5.1 ohms.
Mechanical Quality Factor, Qms	15.11
Electrical Quality Factor, Qes	0.40
Total Quality Factor, Qts	0.39
Equivalent Air Volume to Cms, Vas	163.2 l
Mechanical Compliance, Cms	75 μm / N
Mechanical Resistance, Rms	3.61 kg / s
Efficiency, η0 (%)	2.5
Effective Surface Area, Sd (m ²)	0.1250 m ²
Maximum Displacement, Xmax	8 mm.
Displacement Volume, Vd	1000 cm ³
Voice Coil Inductance, Le @ 1 kHz	2.8 mH



Nota: respuesta de frecuencia medida en el eje con el altavoz fijado en panel infinito en el interior de cámara anecoica, 1w @ 1m.

Note: on axis frequency response measured with loudspeaker standing on infinite baffle in anechoic chamber, 1w @ 1m.

Especificaciones técnicas

Diámetro nominal	8 ohms.
Impedancia nominal	8 ohms.
Impedancia mínima	6.3 ohms.
Potencia admisible*	1000 w AES
Potencia programa	2000 w
Sensibilidad	97 dB 2.83v @ 1m @ 2π
Rango de frecuencias	30 - 2000 Hz
Volumen de caja recom.	40 / 150 l 1.4 / 5.3 ft. ³
Diámetro de bobina	100 mm. 4 in.
Peso conjunto magnético	10.7 kg. 23.54 lb.
Factor BL	23.5 N / A
Masa móvil	0.149 kg.
Altura bobinado	21 mm.
Anchura entrehierro	12 mm.
Desplazamiento máximo	52 mm.

Technical specifications

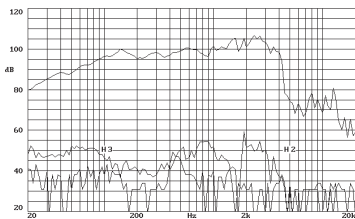
Nominal diameter	380 mm. 15 in.
Rated impedance	8 ohms.
Minimum impedance	6.3 ohms.
Power capacity*	1000 w AES
Program power	2000 w
Sensitivity	97 dB 2.83v @ 1m @ 2π
Frequency range	30 - 2000 Hz
Recom. enclosure vol.	40 / 150 l 1.4 / 5.3 ft. ³
Voice coil diameter	100 mm. 4 in.
Magnetic assembly weight	10.7 kg. 23.54 lb.
BL factor	23.5 N / A
Moving mass	0.149 kg.
Voice coil length	21 mm.
Air gap height	12 mm.
X damage (peak to peak)	52 mm.

Parámetros Thiele-Small****

Fs	45 Hz
Re	5.1 ohms.
Qms	11.46
Qes	0.38
Qts	0.37
Vas	85.9 l
Cms	84.2 μm / N
Rms	3.71 kg / s
η0 (%)	2
Sd	0.0855 m ²
Xmax	8 mm.
Vd	685 cm ³
Le @ 1 kHz	2 mH

Thiele-Small parameters**

Resonant frequency, fs	45 Hz
D.C. Voice coil resistance, Re	5.1 ohms.
Mechanical Quality Factor, Qms	11.46
Electrical Quality Factor, Qes	0.38
Total Quality Factor, Qts	0.37
Equivalent Air Volume to Cms, Vas	85.9 l
Mechanical Compliance, Cms	84.2 μm / N
Mechanical Resistance, Rms	3.71 kg / s
Efficiency, η0 (%)	2
Effective Surface Area, Sd (m ²)	0.0855 m ²
Maximum Displacement, Xmax	8 mm.
Displacement Volume, Vd	685 cm ³
Voice Coil Inductance, Le @ 1 kHz	2 mH



Nota: respuesta de frecuencia medida en el eje con el altavoz fijado en panel infinito en el interior de cámara anecoica, 1w @ 1m.

Note: on axis frequency response measured with loudspeaker standing on infinite baffle in anechoic chamber, 1w @ 1m.

Especificaciones técnicas

Diámetro nominal	8 ohms.
Impedancia nominal	8 ohms.
Impedancia mínima	5.8 ohms.
Potencia admisible*	800 w AES
Potencia programa	1600 w
Sensibilidad	100 dB 2.83v @ 1m @ 2π
Rango de frecuencias	25 - 4000 Hz
Volumen de caja recom.	80 / 200 l 2.8 / 7 ft. ³
Diámetro de bobina	100 mm. 4 in.
Peso conjunto magnético	4.62 kg. 10.16 lb.
Factor BL	21.9 N / A
Masa móvil	0.146 kg.
Altura bobinado	20 mm.
Anchura entrehierro	12 mm.
Desplazamiento máximo	52 mm.

Technical specifications

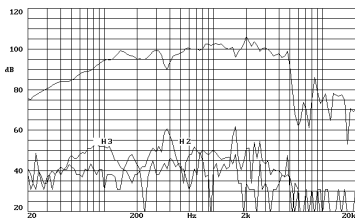
Nominal diameter	460 mm. 18 in.
Rated impedance	8 ohms.
Minimum impedance	5.8 ohms.
Power capacity*	800 w AES
Program power	1600 w
Sensitivity	100 dB 2.83v @ 1m @ 2π
Frequency range	25 - 4000 Hz
Recom. enclosure vol.	80 / 200 l 2.8 / 7 ft. ³
Voice coil diameter	100 mm. 4 in.
Magnetic assembly weight	4.62 kg. 10.16 lb.
BL factor	21.9 N / A
Moving mass	0.146 kg.
Voice coil length	20 mm.
Air gap height	12 mm.
X damage (peak to peak)	52 mm.

Parámetros Thiele-Small**

Fs	30 Hz
Re	5.1 ohms.
Qms	11.55
Qes	0.29
Qts	0.29
Vas	411 l
Cms	193 μm / N
Rms	2.34 kg / s
η0 (%)	3.7
Sd	0.1225 m ²
Xmax	7.5 mm.
Vd	918 cm ³
Le @ 1 kHz	1.9 mH

Thiele-Small parameters**

Resonant frequency, fs	30 Hz
D.C. Voice coil resistance, Re	5.1 ohms.
Mechanical Quality Factor, Qms	11.55
Electrical Quality Factor, Qes	0.29
Total Quality Factor, Qts	0.29
Equivalent Air Volume to Cms, Vas	411 l
Mechanical Compliance, Cms	193 μm / N
Mechanical Resistance, Rms	2.34 kg / s
Efficiency, η0 (%)	3.7
Effective Surface Area, Sd	0.1225 m ²
Maximum Displacement, Xmax	7.5 mm.
Displacement Volume, Vd	918 cm ³
Voice Coil Inductance, Le @ 1 kHz	1.9 mH



Nota: respuesta de frecuencia medida en el eje con el altavoz fijado en panel infinito en el interior de cámara anecoica, 1w @ 1m.

Note: on axis frequency response measured with loudspeaker standing on infinite baffle in anechoic chamber, 1w @ 1m.

Especificaciones técnicas

Diámetro nominal	Nominal diameter
Impedancia nominal	Rated impedance
Impedancia mínima	Minimum impedance
Potencia admisible*	Power capacity*
Potencia programa	Program power
Sensibilidad	Sensitivity
Rango de frecuencias	Frequency range
Volumen de caja recom.	Recom. enclosure vol.
Diámetro de bobina	Voice coil diameter
Peso conjunto magnético	Magnetic assembly weight
Factor BL	BL factor
Masa móvil	Moving mass
Altura bobinado	Voice coil length
Anchura entrehierro	Air gap height
Desplazamiento máximo	X damage (peak to peak)

Technical specifications

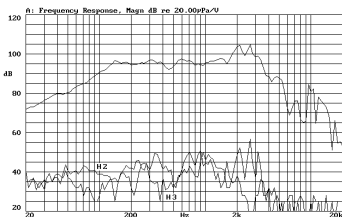
Nominal diameter	380 mm. 15 in.
Rated impedance	8 ohms.
Minimum impedance	6.4 ohms.
Power capacity*	800 w AES
Program power	1600 w
Sensitivity	100 dB 2.83v @ 1m @ 2π
Frequency range	30 - 5000 Hz
Recom. enclosure vol.	40 / 150 l 1.4 / 5.3 ft. ³
Voice coil diameter	100 mm. 4 in.
Magnetic assembly weight	4.62 kg. 10.16 lb.
BL factor	23.6 N / A
Moving mass	0.105 kg.
Voice coil length	20 mm.
Air gap height	12 mm.
X damage (peak to peak)	52 mm.

Parámetros Thiele-Small**

Fs	Resonant frequency, fs
Re	D.C. Voice coil resistance, Re
Qms	Mechanical Quality Factor, Qms
Qes	Electrical Quality Factor, Qes
Qts	Total Quality Factor, Qts
Vas	Equivalent Air Volume to Cms, Vas
Cms	Mechanical Compliance, Cms
Rms	Mechanical Resistance, Rms
η0 (%)	Efficiency, η0 (%)
Sd	Effective Surface Area, Sd
Xmax	Maximum Displacement, Xmax
Vd	Displacement Volume, Vd
Le @ 1 kHz	Voice Coil Inductance, Le @ 1 kHz

Thiele-Small parameters**

Resonant frequency, fs	35 Hz
D.C. Voice coil resistance, Re	5.2 ohms.
Mechanical Quality Factor, Qms	10.16
Electrical Quality Factor, Qes	0.22
Total Quality Factor, Qts	0.21
Equivalent Air Volume to Cms, Vas	217 l
Mechanical Compliance, Cms	197 μm / N
Mechanical Resistance, Rms	2.3 kg / s
Efficiency, η0 (%)	4.1
Effective Surface Area, Sd	0.0880 m ²
Maximum Displacement, Xmax	7.5 mm.
Displacement Volume, Vd	660 cm ³
Voice Coil Inductance, Le @ 1 kHz	1.2 mH



Nota: respuesta de frecuencia medida en el eje con el altavoz fijado en panel infinito en el interior de cámara anecoica, 1w @ 1m.

Note: on axis frequency response measured with loudspeaker standing on infinite baffle in anechoic chamber, 1w @ 1m.

Especificaciones técnicas

Diámetro nominal	Nominal diameter
Impedancia nominal	Rated impedance
Impedancia mínima	Minimum impedance
Potencia admisible*	Power capacity*
Potencia programa	Program power
Sensibilidad	Sensitivity
Rango de frecuencias	Frequency range
Volumen de caja recom.	Recom. enclosure vol.
Diámetro de bobina	Voice coil diameter
Peso conjunto magnético	Magnetic assembly weight
Factor BL	BL factor
Masa móvil	Moving mass
Altura bobinado	Voice coil length
Anchura entrehierro	Air gap height
Desplazamiento máximo	X damage (peak to peak)

Technical specifications

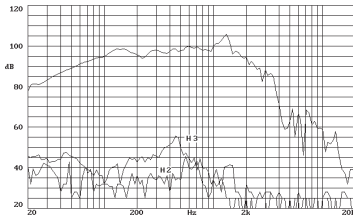
Nominal diameter	300 mm. 12 in.
Rated impedance	8 ohms.
Minimum impedance	6.4 ohms.
Power capacity*	700 w AES
Program power	1400 w
Sensitivity	101 dB 2.83v @ 1m @ 2π
Frequency range	25 - 4000 Hz
Recom. enclosure vol.	20 / 60 l 0.7 / 2.24 ft. ³
Voice coil diameter	100 mm. 4 in.
Magnetic assembly weight	4.62 kg. 10.16 lb.
BL factor	23.1 N / A
Moving mass	0.056 kg.
Voice coil length	20 mm.
Air gap height	12 mm.
X damage (peak to peak)	52 mm.

Parámetros Thiele-Small**

Fs	Resonant frequency, fs
Re	D.C. Voice coil resistance, Re
Qms	Mechanical Quality Factor, Qms
Qes	Electrical Quality Factor, Qes
Qts	Total Quality Factor, Qts
Vas	Equivalent Air Volume to Cms, Vas
Cms	Mechanical Compliance, Cms
Rms	Mechanical Resistance, Rms
η0 (%)	Efficiency, η0 (%)
Sd	Effective Surface Area, Sd
Xmax	Maximum Displacement, Xmax
Vd	Displacement Volume, Vd
Le @ 1 kHz	Voice Coil Inductance, Le @ 1 kHz

Thiele-Small parameters**

Resonant frequency, fs	45 Hz
D.C. Voice coil resistance, Re	5.2 ohms.
Mechanical Quality Factor, Qms	6.6
Electrical Quality Factor, Qes	0.15
Total Quality Factor, Qts	0.15
Equivalent Air Volume to Cms, Vas	95.7 l
Mechanical Compliance, Cms	227 μm / N
Mechanical Resistance, Rms	2.39 kg / s
Efficiency, η0 (%)	5.4
Effective Surface Area, Sd	0.055 m ²
Maximum Displacement, Xmax	7.5 mm.
Displacement Volume, Vd	413 cm ³
Voice Coil Inductance, Le @ 1 kHz	1.2 mH



Nota: respuesta de frecuencia medida en el eje con el altavoz fijado en panel infinito en el interior de cámara anecoica, 1w @ 1m.

Note: on axis frequency response measured with loudspeaker standing on infinite baffle in anechoic chamber, 1w @ 1m.

Especificaciones técnicas

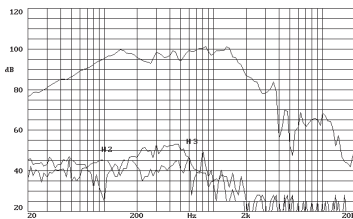
Diámetro nominal	Nominal diameter	460 mm. 18 in.
Impedancia nominal	Rated impedance	8 ohms.
Impedancia mínima	Minimum impedance	6.3 ohms.
Potencia admisible*	Power capacity*	900 w AES
Potencia programa	Program power	1800 w
Sensibilidad	Sensitivity	98 dB 2.83v @ 1m @ 2π
Rango de frecuencias	Frequency range	25 - 1500 Hz
Volumen de caja recomendado	Recom. enclosure vol.	80 / 200 l 2.8 / 7 ft. ³
Diámetro de bobina	Voice coil diameter	114 mm. 4.5 in.
Peso conjunto magnético	Magnetic assembly weight	10 kg. 22 lb.
Factor BL	BL factor	24.4 N / A
Masa móvil	Moving mass	0.190 kg.
Altura bobinado	Voice coil length	25 mm.
Anchura entrehierro	Air gap height	11 mm.
Desplazamiento máximo	X damage (peak to peak)	40 mm.

Technical specifications

Parámetros Thiele-Small**

Fs	Resonant frequency, fs	36 Hz
Re	D.C. Voice coil resistance, Re	5.3 ohms.
Qms	Mechanical Quality Factor, Qms	8.88
Qes	Electrical Quality Factor, Qes	0.39
Qts	Total Quality Factor, Qts	0.37
Vas	Equivalent Air Volume to Cms, Vas	210 l
Cms	Mechanical Compliance, Cms	103 μm / N
Rms	Mechanical Resistance, Rms	5.5 kg / s
ηo (%)	Efficiency, ηo (%)	2.5
Sd	Effective Surface Area, Sd	0.1200 m ²
Xmax	Maximum Displacement, Xmax	9 mm.
Vd	Displacement Volume, Vd	1075 cm ³
Le @ 1 kHz	Voice Coil Inductance, Le @ 1 kHz	1.4 mH

Thiele-Small parameters**



Nota: respuesta de frecuencia medida en el eje con el altavoz fijado en panel infinito en el interior de cámara anecoica, 1w @ 1m.

Note: on axis frequency response measured with loudspeaker standing on infinite baffle in anechoic chamber, 1w @ 1m.

Especificaciones técnicas

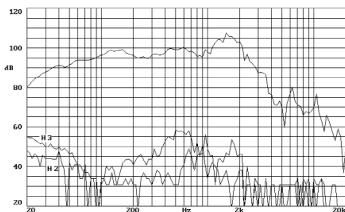
Diámetro nominal	Nominal diameter	380 mm. 15 in.
Impedancia nominal	Rated impedance	8 ohms.
Impedancia mínima	Minimum impedance	6.5 ohms.
Potencia admisible**	Power capacity*	750 w AES
Potencia programa	Program power	1500 w
Sensibilidad	Sensitivity	98 dB 2.83v @ 1m @ 2π
Rango de frecuencias	Frequency range	30 - 1500 Hz
Volumen de caja recom.	Recom. enclosure vol.	50 / 250 l 1.8 / 8.8 ft. ³
Diámetro de bobina	Voice coil diameter	114 mm. 4.5 in.
Peso conjunto magnético	Magnetic assembly weight	9.9 kg. 21.8 lb.
Factor BL	BL factor	24.3 N / A
Masa móvil	Moving mass	0.142 kg.
Altura bobinado	Voice coil length	21 mm.
Anchura entrehierro	Air gap height	9 mm.
Desplazamiento máximo	X damage (peak to peak)	35 mm.

Technical specifications

Parámetros Thiele-Small**

Fs	Resonant frequency, fs	45 Hz
Re	D.C. Voice coil resistance, Re	5.7 ohms.
Qms	Mechanical Quality Factor, Qms	10.5
Qes	Electrical Quality Factor, Qes	0.33
Qts	Total Quality Factor, Qts	0.32
Vas	Equivalent Air Volume to Cms, Vas	115 l
Cms	Mechanical Compliance, Cms	88 μm / N
Rms	Mechanical Resistance, Rms	3.2 kg / s
ηo (%)	Efficiency, ηo (%)	3
Sd	Effective Surface Area, Sd	0.0880 m ²
Xmax	Maximum Displacement, Xmax	6.5 mm.
Vd	Displacement Volume, Vd	570 cm ³
Le @ 1 kHz	Voice Coil Inductance, Le @ 1 kHz	1.2 mH

Thiele-Small parameters**



Nota: respuesta de frecuencia medida en el eje con el altavoz fijado en panel infinito en el interior de cámara anecoica, 2.83V @ 1m.

Note: on axis frequency response measured with loudspeaker on infinite baffle in anechoic chamber, 2.83V @ 1m.

Especificaciones técnicas

Diámetro nominal	Nominal diameter
Impedancia nominal	Rated impedance
Impedancia mínima	Minimum impedance
Potencia admisible*	Power capacity*
Potencia programa	Program power
Sensibilidad	Sensitivity
Rango de frecuencias	Frequency range
Volumen de caja recom.	Recom. enclosure vol.
Diámetro de bobina	Voice coil diameter
Peso conjunto magnético	Magnetic assembly weight
Factor BL	BL factor
Masa móvil	Moving mass
Altura bobinado	Voice coil length
Anchura entrehierro	Air gap height
Desplazamiento máximo	X damage (peak to peak)

Technical specifications

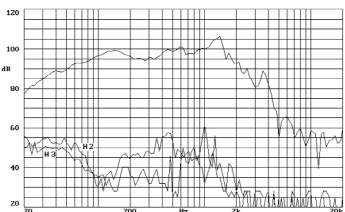
Nominal diameter	460 mm. 18 in.
Rated impedance	8 ohms.
Minimum impedance	6.4 ohms.
Power capacity*	700 w AES
Program power	1400 w
Sensitivity	98 dB 2.83v @ 1m @ 2π
Frequency range	25 - 1000 Hz
Recom. enclosure vol.	80 / 250 l 2.8 / 8.8 ft. ³
Voice coil diameter	100 mm. 4 in.
Magnetic assembly weight	9 kg. 19.84 lb.
BL factor	21.8 N / A
Moving mass	0.215 kg.
Voice coil length	20 mm.
Air gap height	10 mm.
X damage (peak to peak)	58 mm.

Parámetros Thiele-Small**

Fs	Resonant frequency, fs
Re	D.C. Voice coil resistance, Re
Qms	Mechanical Quality Factor, Qms
Qes	Electrical Quality Factor, Qes
Qts	Total Quality Factor, Qts
Vas	Equivalent Air Volume to Cms, Vas
Cms	Mechanical Compliance, Cms
Rms	Mechanical Resistance, Rms
η0 (%)	Efficiency, η0 (%)
Sd	Effective Surface Area, Sd
Xmax	Maximum Displacement, Xmax
Vd	Displacement Volume, Vd
Le @ 1 kHz	Voice Coil Inductance, Le @ 1 kHz

Thiele-Small parameters**

Resonant frequency, fs	35 Hz
D.C. Voice coil resistance, Re	5.1 ohms.
Mechanical Quality Factor, Qms	15.72
Electrical Quality Factor, Qes	0.5
Total Quality Factor, Qts	0.48
Equivalent Air Volume to Cms, Vas	236.52 l
Mechanical Compliance, Cms	94.5 μm / N
Mechanical Resistance, Rms	3.04 kg / s
Efficiency, η0 (%)	1.91
Effective Surface Area, Sd	0.1320 m ²
Maximum Displacement, Xmax	9 mm.
Displacement Volume, Vd	1178 cm ³
Voice Coil Inductance, Le @ 1 kHz	2.00 mH



Nota: respuesta de frecuencia medida en el eje con el altavoz fijado en panel infinito en el interior de cámara anecoica, 2.83V @ 1m.

Note: on axis frequency response measured with loudspeaker on infinite baffle in anechoic chamber, 2.83V @ 1m.

Especificaciones técnicas

Diámetro nominal	Nominal diameter
Impedancia nominal	Rated impedance
Impedancia mínima	Minimum impedance
Potencia admisible*	Power capacity*
Potencia programa	Program power
Sensibilidad	Sensitivity
Rango de frecuencias	Frequency range
Volumen de caja recom.	Recom. enclosure vol.
Diámetro de bobina	Voice coil diameter
Peso conjunto magnético	Magnetic assembly weight
Factor BL	BL factor
Masa móvil	Moving mass
Altura bobinado	Voice coil length
Anchura entrehierro	Air gap height
Desplazamiento máximo	X damage (peak to peak)

Technical specifications

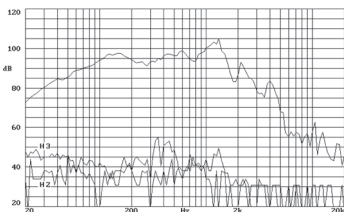
Nominal diameter	380 mm. 15 in.
Rated impedance	8 ohms.
Minimum impedance	7.2 ohms.
Power capacity*	700 w AES
Program power	1400 w
Sensitivity	98 dB 2.83v @ 1m @ 2π
Frequency range	30 - 1500 Hz
Recom. enclosure vol.	60 / 150 l 2.24 / 6 ft. ³
Voice coil diameter	100 mm. 4 in.
Magnetic assembly weight	9 kg. 19.84 lb.
BL factor	21.1 N / A
Moving mass	0.147 kg.
Voice coil length	20 mm.
Air gap height	10 mm.
X damage (peak to peak)	58 mm.

Parámetros Thiele-Small**

Fs	Resonant frequency, fs
Re	D.C. Voice coil resistance, Re
Qms	Mechanical Quality Factor, Qms
Qes	Electrical Quality Factor, Qes
Qts	Total Quality Factor, Qts
Vas	Equivalent Air Volume to Cms, Vas
Cms	Mechanical Compliance, Cms
Rms	Mechanical Resistance, Rms
η0 (%)	Efficiency, η0 (%)
Sd	Effective Surface Area, Sd
Xmax	Maximum Displacement, Xmax
Vd	Displacement Volume, Vd
Le @ 1 kHz	Voice Coil Inductance, Le @ 1 kHz

Thiele-Small parameters**

Resonant frequency, fs	42 Hz
D.C. Voice coil resistance, Re	5.1 ohms.
Mechanical Quality Factor, Qms	21.23
Electrical Quality Factor, Qes	0.45
Total Quality Factor, Qts	0.44
Equivalent Air Volume to Cms, Vas	105.53 l
Mechanical Compliance, Cms	92.4 μm / N
Mechanical Resistance, Rms	1.9 kg / s
Efficiency, η0 (%)	1.67
Effective Surface Area, Sd	0.091 m ²
Maximum Displacement, Xmax	9 mm.
Displacement Volume, Vd	812 cm ³
Voice Coil Inductance, Le @ 1 kHz	2.1 mH



Nota: respuesta de frecuencia medida en el eje con el altavoz fijado en panel infinito en el interior de cámara anecoica, 2.83V @ 1m.

Note: on axis frequency response measured with loudspeaker standing on infinite baffle in anechoic chamber, 2.83V @ 1m.

Especificaciones técnicas

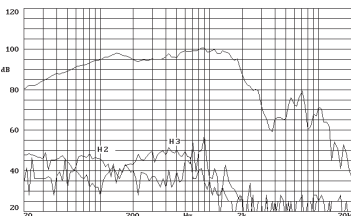
Diámetro nominal	Nominal diameter	300 mm. 12 in.
Impedancia nominal	Rated impedance	8 ohms.
Impedancia mínima	Minimum impedance	7.1 ohms.
Potencia admisible*	Power capacity*	700 w AES
Potencia programa	Program power	1400 w
Sensibilidad	Sensitivity	96 dB 2.83v @ 1m @ 2π
Rango de frecuencias	Frequency range	35 - 2000 Hz
Volume de caixa recomendado	Recom. enclosure vol.	12 / 60 l 0.7 / 2.24 ft. ³
Diámetro de bobina	Voice coil diameter	100 mm. 4 in.
Peso conjunto magnético	Magnetic assembly weight	9 kg. 19.84 lb.
Factor BL	BL factor	20 N / A
Masa móvil	Moving mass	0.102 kg.
Altura bobinado	Voice coil length	20 mm.
Anchura entrehierro	Air gap height	10 mm.
Desplazamiento máximo	X damage (peak to peak)	58 mm.

Technical specifications

Parámetros Thiele-Small**

Fs	Resonant frequency, fs	49 Hz
Re	D.C. Voice coil resistance, Re	5.1 ohms.
Qms	Mechanical Quality Factor, Qms	15.3
Qes	Electrical Quality Factor, Qes	0.4
Qts	Total Quality Factor, Qts	0.38
Vas	Equivalent Air Volume to Cms, Vas	43 l
Cms	Mechanical Compliance, Cms	99 μm / N
Rms	Mechanical Resistance, Rms	2.1 kg / s
ηo (%)	Efficiency, ηo (%)	1.21
Sd	Effective Surface Area, Sd	0.055 m ²
Xmax	Maximum Displacement, Xmax	9 mm.
Vd	Displacement Volume, Vd	500 cm ³
Le @ 1 kHz	Voice Coil Inductance, Le @ 1 kHz	2.00 mH

Thiele-Small parameters**



Nota: respuesta de frecuencia medida en el eje con el altavoz fijado en panel infinito en el interior de cámara anecoica, 1w @ 1m.

Note: on axis frequency response measured with loudspeaker standing on infinite baffle in anechoic chamber, 1w @ 1m.

Especificaciones técnicas

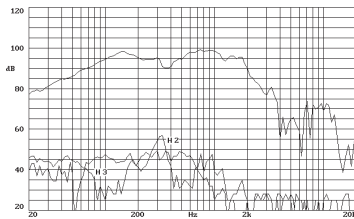
Diámetro nominal	Nominal diameter	460 mm. 18 in.
Impedancia nominal	Rated impedance	8 ohms.
Impedancia mínima	Minimum impedance	7 ohms.
Potencia admisible*	Power capacity*	700 w AES
Potencia programa	Program power	1400 w
Sensibilidad	Sensitivity	97 dB 2.83v @ 1m @ 2π
Rango de frecuencias	Frequency range	25 - 1500 Hz
Volume de caixa recomendado	Recom. enclosure vol.	80 / 200 l 2.8 / 7 ft. ³
Diámetro de bobina	Voice coil diameter	100 mm. 4 in.
Peso conjunto magnético	Magnetic assembly weight	9 kg. 19.8 lb.
Factor BL	BL factor	22.5 N / A
Masa móvil	Moving mass	0.171 kg.
Altura bobinado	Voice coil length	23 mm.
Anchura entrehierro	Air gap height	9.5 mm.
Desplazamiento máximo	X damage (peak to peak)	33 mm.

Technical specifications

Parámetros Thiele-Small**

Fs	Resonant frequency, fs	32 Hz
Re	D.C. Voice coil resistance, Re	6 ohms.
Qms	Mechanical Quality Factor, Qms	12.7
Qes	Electrical Quality Factor, Qes	0.42
Qts	Total Quality Factor, Qts	0.41
Vas	Equivalent Air Volume to Cms, Vas	323 l
Cms	Mechanical Compliance, Cms	137 μm / N
Rms	Mechanical Resistance, Rms	3 kg / s
ηo (%)	Efficiency, ηo (%)	2.4
Sd	Effective Surface Area, Sd	0.1300 m ²
Xmax	Maximum Displacement, Xmax	7 mm.
Vd	Displacement Volume, Vd	910 cm ³
Le @ 1 kHz	Voice Coil Inductance, Le @ 1 kHz	3 mH

Thiele-Small parameters**



Nota: respuesta de frecuencia medida en el eje con el altavoz fijado en panel infinito en el interior de cámara anecoica, 1w @ 1m.

Note: on axis frequency response measured with loudspeaker standing on infinite baffle in anechoic chamber, 1w @ 1m.

Especificaciones técnicas

Diámetro nominal	Nominal diameter
Impedancia nominal	Rated impedance
Impedancia mínima	Minimum impedance
Potencia admisible*	Power capacity*
Potencia programa	Program power
Sensibilidad	Sensitivity
Rango de frecuencias	Frequency range
Volumen de caja recomendado	Recom. enclosure vol.
Diámetro de bobina	Voice coil diameter
Peso conjunto magnético	Magnetic assembly weight
Factor BL	BL factor
Masa móvil	Moving mass
Altura bobinado	Voice coil length
Anchura entrehierro	Air gap height
Desplazamiento máximo	X damage (peak to peak)

Technical specifications

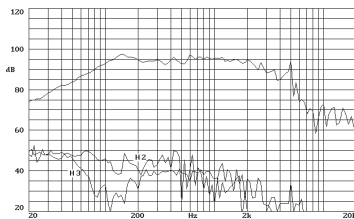
Nominal diameter	380 mm. 15 in.
Rated impedance	8 ohms.
Minimum impedance	7 ohms.
Power capacity*	700 w AES
Program power	1400 w
Sensitivity	97 dB 2.83v @ 1m @ 2π
Frequency range	25 - 15000 Hz
Recom. enclosure vol.	40 / 150 l 1.4 / 6 ft. ³
Voice coil diameter	100 mm. 4 in.
Magnetic assembly weight	9 kg. 19.8 lb.
BL factor	23 N / A
Moving mass	0.122 kg.
Voice coil length	23 mm.
Air gap height	9.5 mm.
X damage (peak to peak)	33 mm.

Parámetros Thiele-Small**

Fs	Resonant frequency, fs
Re	D.C. Voice coil resistance, Re
Qms	Mechanical Quality Factor, Qms
Qes	Electrical Quality Factor, Qes
Qts	Total Quality Factor, Qts
Vas	Equivalent Air Volume to Cms, Vas
Cms	Mechanical Compliance, Cms
Rms	Mechanical Resistance, Rms
η0 (%)	Efficiency, η0 (%)
Sd	Effective Surface Area, Sd
Xmax	Maximum Displacement, Xmax
Vd	Displacement Volume, Vd
Le @ 1 kHz	Voice Coil Inductance, Le @ 1 kHz

Thiele-Small parameters**

Resonant frequency, fs	37 Hz
D.C. Voice coil resistance, Re	5.9 ohms.
Mechanical Quality Factor, Qms	9.95
Electrical Quality Factor, Qes	0.31
Total Quality Factor, Qts	0.30
Equivalent Air Volume to Cms, Vas	149 l
Mechanical Compliance, Cms	155 μm / N
Mechanical Resistance, Rms	2.8 kg / s
Efficiency, η0 (%)	2.3
Effective Surface Area, Sd	0.0830 m ²
Maximum Displacement, Xmax	7 mm.
Displacement Volume, Vd	576 cm ³
Voice Coil Inductance, Le @ 1 kHz	2.9 mH



Nota: respuesta de frecuencia medida en el eje con el altavoz fijado en panel infinito en el interior de cámara anecoica, 1w @ 1m.

Note: on axis frequency response measured with loudspeaker standing on infinite baffle in anechoic chamber, 1w @ 1m.

Especificaciones técnicas

Diámetro nominal	Nominal diameter
Impedancia nominal	Rated impedance
Impedancia mínima	Minimum impedance
Potencia admisible*	Power capacity*
Potencia programa	Program power
Sensibilidad	Sensitivity
Rango de frecuencias	Frequency range
Volumen de caja recom.	Recom. enclosure vol.
Diámetro de bobina	Voice coil diameter
Peso conjunto magnético	Magnetic assembly weight
Factor BL	BL factor
Masa móvil	Moving mass
Altura bobinado	Voice coil length
Anchura entrehierro	Air gap height
Desplazamiento máximo	X damage (peak to peak)

Technical specifications

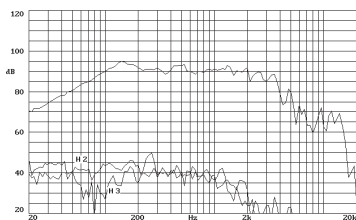
Nominal diameter	300 mm. 12 in.
Rated impedance	8 ohms.
Minimum impedance	6.7 ohms.
Power capacity*	500 w AES
Program power	1000 w
Sensitivity	97 dB 2.83v @ 1m @ 2π
Frequency range	35 - 4000 Hz
Recom. enclosure vol.	20 / 70 l 0.7 / 2.6 ft. ³
Voice coil diameter	77 mm. 3 in.
Magnetic assembly weight	6.3 kg. 13.9 lb.
BL factor	18.4 N / A
Moving mass	0.062 kg.
Voice coil length	17.5 mm.
Air gap height	8 mm.
X damage (peak to peak)	28 mm.

Parámetros Thiele-Small**

Fs	Resonant frequency, fs
Re	D.C. Voice coil resistance, Re
Qms	Mechanical Quality Factor, Qms
Qes	Electrical Quality Factor, Qes
Qts	Total Quality Factor, Qts
Vas	Equivalent Air Volume to Cms, Vas
Cms	Mechanical Compliance, Cms
Rms	Mechanical Resistance, Rms
η0 (%)	Efficiency, η0 (%)
Sd	Effective Surface Area, Sd
Xmax	Maximum Displacement, Xmax
Vd	Displacement Volume, Vd
Le @ 1 kHz	Voice Coil Inductance, Le @ 1 kHz

Thiele-Small parameters**

Resonant frequency, fs	44 Hz
D.C. Voice coil resistance, Re	6 ohms.
Mechanical Quality Factor, Qms	11.6
Electrical Quality Factor, Qes	0.3
Total Quality Factor, Qts	0.3
Equivalent Air Volume to Cms, Vas	81 l
Mechanical Compliance, Cms	206 μm / N
Mechanical Resistance, Rms	1.5 kg / s
Efficiency, η0 (%)	2.3
Effective Surface Area, Sd	0.0530 m ²
Maximum Displacement, Xmax	5 mm.
Displacement Volume, Vd	316 cm ³
Voice Coil Inductance, Le @ 1 kHz	2.00 mH



Nota: respuesta de frecuencia medida en el eje con el altavoz fijado en panel infinito en el interior de cámara anecoica, 1w @ 1m.

Note: on axis frequency response measured with loudspeaker standing on infinite baffle in anechoic chamber, 1w @ 1m.

Especificaciones técnicas

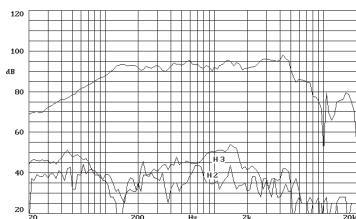
Diámetro nominal	Nominal diameter	250 mm. 10 in.
Impedancia nominal	Rated impedance	8 ohms.
Impedancia mínima	Minimum impedance	7.2 ohms.
Potencia admisible*	Power capacity*	400 w AES
Potencia programa	Program power	800 w
Sensibilidad	Sensitivity	96 dB 2.83v @ 1m @ 2π
Rango de frecuencias	Frequency range	45 - 4000 Hz
Volumen de caja recomendado	Recom. enclosure vol.	20 / 70 l 0.7 / 2.6 ft. ³
Diámetro de bobina	Voice coil diameter	77 mm. 3 in.
Peso conjunto magnético	Magnetic assembly weight	5 kg. 11 lb.
Factor BL	BL factor	17.9 N / A
Masa móvil	Moving mass	0.051 kg.
Altura bobinado	Voice coil length	20 mm.
Anchura entrehierro	Air gap height	8 mm.
Desplazamiento máximo	X damage (peak to peak)	28 mm.

Technical specifications

Parámetros Thiele-Small**

Fs	Resonant frequency, fs	55 Hz
Re	D.C. Voice coil resistance, Re	6 ohms.
Qms	Mechanical Quality Factor, Qms	6.47
Qes	Electrical Quality Factor, Qes	0.33
Qts	Total Quality Factor, Qts	0.31
Vas	Equivalent Air Volume to Cms, Vas	33 l
Cms	Mechanical Compliance, Cms	164 μm / N
Rms	Mechanical Resistance, Rms	2.75 kg / s
η0 (%)	Efficiency, η0 (%)	1.6
Sd	Effective Surface Area, Sd	0.0380 m ²
Xmax	Maximum Displacement, Xmax	6 mm.
Vd	Displacement Volume, Vd	227 cm ³
Le @ 1 kHz	Voice Coil Inductance, Le @ 1 kHz	1 mH

Thiele-Small parameters**



Nota: respuesta de frecuencia medida en el eje con el altavoz fijado en panel infinito en el interior de cámara anecoica, 1w @ 1m.

Note: on axis frequency response measured with loudspeaker standing on infinite baffle in anechoic chamber, 1w @ 1m.

Especificaciones técnicas

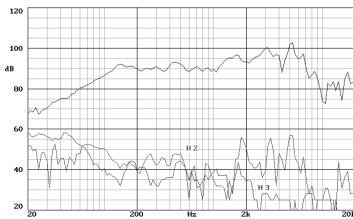
Diámetro nominal	Nominal diameter	200 mm. 8 in.
Impedancia nominal	Rated impedance	8 ohms.
Impedancia mínima	Minimum impedance	7.3 ohms.
Potencia admisible*	Power capacity*	250 w AES
Potencia programa	Program power	500 w
Sensibilidad	Sensitivity	95 dB 2.83v @ 1m @ 2π
Rango de frecuencias	Frequency range	65 - 6000 Hz
Volumen de caja recom.	Recom. enclosure vol.	10 / 30 l 0.35 / 1.06 ft. ³
Diámetro de bobina	Voice coil diameter	62.4 mm. 2.5 in.
Peso conjunto magnético	Magnetic assembly weight	3 kg. 6.6 lb.
Factor BL	BL factor	12.2 N / A
Masa móvil	Moving mass	0.021 kg.
Altura bobinado	Voice coil length	16 mm.
Anchura entrehierro	Air gap height	7 mm.
Desplazamiento máximo	X damage (peak to peak)	23 mm.

Technical specifications

Parámetros Thiele-Small**

Fs	Resonant frequency, fs	70 Hz
Re	D.C. Voice coil resistance, Re	6.1 ohms.
Qms	Mechanical Quality Factor, Qms	6.83
Qes	Electrical Quality Factor, Qes	0.38
Qts	Total Quality Factor, Qts	0.36
Vas	Equivalent Air Volume to Cms, Vas	17 l
Cms	Mechanical Compliance, Cms	246 μm / N
Rms	Mechanical Resistance, Rms	1.4 kg / s
η0 (%)	Efficiency, η0 (%)	1.5
Sd	Effective Surface Area, Sd	0.0220 m ²
Xmax	Maximum Displacement, Xmax	4.5 mm.
Vd	Displacement Volume, Vd	99 cm ³
Le @ 1 kHz	Voice Coil Inductance, Le @ 1 kHz	1.00 mH

Thiele-Small parameters**



Nota: respuesta de frecuencia medida en el eje con el altavoz fijado en panel infinito en el interior de cámara anecoica, 1w @ 1m.

Note: on axis frequency response measured with loudspeaker standing on infinite baffle in anechoic chamber, 1w @ 1m.

Especificaciones técnicas

Diámetro nominal	Nominal diameter	165 mm. 6.5 in.
Impedancia nominal	Rated impedance	8 ohms.
Impedancia mínima	Minimum impedance	7 ohms.
Potencia admisible*	Power capacity*	170 w AES
Potencia programa	Program power	340 w
Sensibilidad	Sensitivity	95 dB 2.83v @ 1m @ 2π
Rango de frecuencias	Frequency range	70 - 9000 Hz
Volumen de caja recom.	Recom. enclosure vol.	10 / 30 l 0.35 / 1.06 ft. ³
Diámetro de bobina	Voice coil diameter	51.7 mm. 2 in.
Peso conjunto magnético	Magnetic assembly weight	1.5 kg. 3.3 lb.
Factor BL	BL factor	11 N / A
Masa móvil	Moving mass	0.012 kg.
Altura bobinado	Voice coil length	9 mm.
Anchura entrehierro	Air gap height	7 mm.
Desplazamiento máximo	X damage (peak to peak)	20 mm.

Parámetros Thiele-Small**

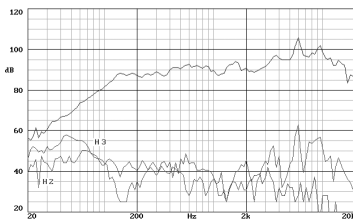
Fs	Resonant frequency, fs	88 Hz
Re	D.C. Voice coil resistance, Re	6.2 ohms.
Qms	Mechanical Quality Factor, Qms	9.1
Qes	Electrical Quality Factor, Qes	0.34
Qts	Total Quality Factor, Qts	0.33
Vas	Equivalent Air Volume to Cms, Vas	7.2 l
Cms	Mechanical Compliance, Cms	260 μm / N
Rms	Mechanical Resistance, Rms	0.76 kg / s
η0 (%)	Efficiency, η0 (%)	1.4
Sd	Effective Surface Area, Sd	0.0140 m ²
Xmax	Maximum Displacement, Xmax	1 mm.
Vd	Displacement Volume, Vd	14 cm ³
Le @ 1 kHz	Voice Coil Inductance, Le @ 1 kHz	0.6 mH

Technical specifications

Nominal diameter	165 mm. 6.5 in.
Rated impedance	8 ohms.
Minimum impedance	7 ohms.
Power capacity*	170 w AES
Program power	340 w
Sensitivity	95 dB 2.83v @ 1m @ 2π
Frequency range	70 - 9000 Hz
Recom. enclosure vol.	10 / 30 l 0.35 / 1.06 ft. ³
Voice coil diameter	51.7 mm. 2 in.
Magnetic assembly weight	1.5 kg. 3.3 lb.
BL factor	11 N / A
Moving mass	0.012 kg.
Voice coil length	9 mm.
Air gap height	7 mm.
X damage (peak to peak)	20 mm.

Thiele-Small parameters**

Resonant frequency, fs	88 Hz
D.C. Voice coil resistance, Re	6.2 ohms.
Mechanical Quality Factor, Qms	9.1
Electrical Quality Factor, Qes	0.34
Total Quality Factor, Qts	0.33
Equivalent Air Volume to Cms, Vas	7.2 l
Mechanical Compliance, Cms	260 μm / N
Mechanical Resistance, Rms	0.76 kg / s
Efficiency, η0 (%)	1.4
Effective Surface Area, Sd	0.0140 m ²
Maximum Displacement, Xmax	1 mm.
Displacement Volume, Vd	14 cm ³
Voice Coil Inductance, Le @ 1 kHz	0.6 mH



Nota: respuesta de frecuencia medida en el eje con el altavoz fijado en panel infinito en el interior de cámara anecoica, 1w @ 1m.

Note: on axis frequency response measured with loudspeaker standing on infinite baffle in anechoic chamber, 1w @ 1m.

Especificaciones técnicas

Diámetro nominal	Nominal diameter	125 mm. 5 in.
Impedancia nominal	Rated impedance	8 ohms.
Impedancia mínima	Minimum impedance	8 ohms.
Potencia admisible*	Power capacity*	100 w AES
Potencia programa	Program power	200 w
Sensibilidad	Sensitivity	93 dB 2.83v @ 1m @ 2π
Rango de frecuencias	Frequency range	90 - 17000 Hz
Volumen de caja recom.	Recom. enclosure vol.	10 / 20 l 0.35 / 0.7 ft. ³
Diámetro de bobina	Voice coil diameter	38.5 mm. 1.5 in.
Peso conjunto magnético	Magnetic assembly weight	1.2 kg. 2.64 lb.
Factor BL	BL factor	10 N / A
Masa móvil	Moving mass	0.007 kg.
Altura bobinado	Voice coil length	9 mm.
Anchura entrehierro	Air gap height	7 mm.
Desplazamiento máximo	X damage (peak to peak)	20 mm.

Parámetros Thiele-Small**

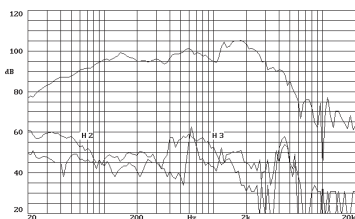
Fs	Resonant frequency, fs	110 Hz
Re	D.C. Voice coil resistance, Re	6.9 ohms.
Qms	Mechanical Quality Factor, Qms	4.9
Qes	Electrical Quality Factor, Qes	0.33
Qts	Total Quality Factor, Qts	0.31
Vas	Equivalent Air Volume to Cms, Vas	3.1 l
Cms	Mechanical Compliance, Cms	300 μm / N
Rms	Mechanical Resistance, Rms	1 kg / s
η0 (%)	Efficiency, η0 (%)	1.2
Sd	Effective Surface Area, Sd	0.0085 m ²
Xmax	Maximum Displacement, Xmax	1 mm.
Vd	Displacement Volume, Vd	9 cm ³
Le @ 1 kHz	Voice Coil Inductance, Le @ 1 kHz	0.4 mH

Technical specifications

Nominal diameter	125 mm. 5 in.
Rated impedance	8 ohms.
Minimum impedance	8 ohms.
Power capacity*	100 w AES
Program power	200 w
Sensitivity	93 dB 2.83v @ 1m @ 2π
Frequency range	90 - 17000 Hz
Recom. enclosure vol.	10 / 20 l 0.35 / 0.7 ft. ³
Voice coil diameter	38.5 mm. 1.5 in.
Magnetic assembly weight	1.2 kg. 2.64 lb.
BL factor	10 N / A
Moving mass	0.007 kg.
Voice coil length	9 mm.
Air gap height	7 mm.
X damage (peak to peak)	20 mm.

Thiele-Small parameters**

Resonant frequency, fs	110 Hz
D.C. Voice coil resistance, Re	6.9 ohms.
Mechanical Quality Factor, Qms	4.9
Electrical Quality Factor, Qes	0.33
Total Quality Factor, Qts	0.31
Equivalent Air Volume to Cms, Vas	3.1 l
Mechanical Compliance, Cms	300 μm / N
Mechanical Resistance, Rms	1 kg / s
Efficiency, η0 (%)	1.2
Effective Surface Area, Sd	0.0085 m ²
Maximum Displacement, Xmax	1 mm.
Displacement Volume, Vd	9 cm ³
Voice Coil Inductance, Le @ 1 kHz	0.4 mH



Nota: respuesta de frecuencia medida en el eje con el altavoz fijado en panel infinito en el interior de cámara anecoica, 1w @ 1m.

Note: on axis frequency response measured with loudspeaker standing on infinite baffle in anechoic chamber, 1w @ 1m.

Especificaciones técnicas

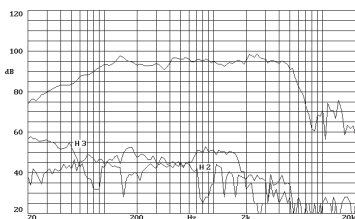
Diámetro nominal	Nominal diameter	380 mm. 15 in.
Impedancia nominal	Rated impedance	8 ohms.
Impedancia mínima	Minimum impedance	5.8 ohms.
Potencia admisible*	Power capacity*	400 w AES
Potencia programa	Program power	800 w
Sensibilidad	Sensitivity	99 dB 2.83v @ 1m @ 2π
Rango de frecuencias	Frequency range	30 - 3500 Hz
Volumen de caja recom.	Recom. enclosure vol.	50 / 130 l 1.75 / 4.59 ft. ³
Diámetro de bobina	Voice coil diameter	62.4 mm. 2.5 in.
Peso conjunto magnético	Magnetic assembly weight	2.54 kg. 5.59 lb.
Factor BL	BL factor	17.2 N / A
Masa móvil	Moving mass	0.090 kg.
Altura bobinado	Voice coil length	17.5 mm.
Anchura entrehierro	Air gap height	10 mm.
Desplazamiento máximo	X damage (peak to peak)	27.5 mm.

Technical specifications

Parámetros Thiele-Small**

Fs	Resonant frequency, fs	42 Hz
Re	D.C. Voice coil resistance, Re	5 ohms.
Qms	Mechanical Quality Factor, Qms	7.62
Qes	Electrical Quality Factor, Qes	0.40
Qts	Total Quality Factor, Qts	0.38
Vas	Equivalent Air Volume to Cms, Vas	176 l
Cms	Mechanical Compliance, Cms	160 μm / N
Rms	Mechanical Resistance, Rms	3.11 kg / s
η0 (%)	Efficiency, η0 (%)	3.1
Sd	Effective Surface Area, Sd	0.0880 m ²
Xmax	Maximum Displacement, Xmax	6.5 mm.
Vd	Displacement Volume, Vd	572 cm ³
Le @ 1 kHz	Voice Coil Inductance, Le @ 1 kHz	1.7 mH

Thiele-Small parameters**



Nota: respuesta de frecuencia medida en el eje con el altavoz fijado en panel infinito en el interior de cámara anecoica, 1w @ 1m.

Note: on axis frequency response measured in the axis with the speaker fixed on infinite panel in the interior of anechoic chamber, 1w @ 1m.

Especificaciones técnicas

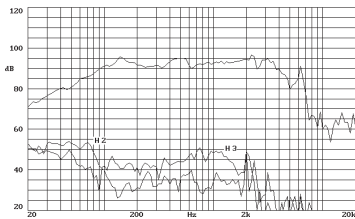
Diámetro nominal	Nominal diameter	300 mm. 12 in.
Impedancia nominal	Rated impedance	8 ohms.
Impedancia mínima	Minimum impedance	7 ohms.
Potencia admisible*	Power capacity*	350 w AES
Potencia programa	Program power	700 w
Sensibilidad	Sensitivity	97 dB 2.83v @ 1m @ 2π
Rango de frecuencias	Frequency range	35 - 5000 Hz
Vol. de caja recomendado	Recom. enclosure vol.	30 / 100 l 1.06 / 3.53 ft. ³
Diámetro de bobina	Voice coil diameter	62.4 mm. 2.5 in.
Peso conjunto magnético	Magnetic assembly weight	2.54 kg. 5.59 lb.
Factor BL	BL factor	16.9 N / A
Masa móvil	Moving mass	0.059 kg.
Altura bobinado	Voice coil length	19.5 mm.
Anchura entrehierro	Air gap height	10 mm.
Desplazamiento máximo	X damage (peak to peak)	30 mm.

Technical specifications

Parámetros Thiele-Small**

Fs	Resonant frequency, fs	43 Hz
Re	D.C. Voice coil resistance, Re	6 ohms.
Qms	Mechanical Quality Factor, Qms	9.15
Qes	Electrical Quality Factor, Qes	0.34
Qts	Total Quality Factor, Qts	0.32
Vas	Equivalent Air Volume to Cms, Vas	100 l
Cms	Mechanical Compliance, Cms	232 μm / N
Rms	Mechanical Resistance, Rms	1.74 kg / s
η0 (%)	Efficiency, η0 (%)	2.3
Sd	Effective Surface Area, Sd	0.0550 m ²
Xmax	Maximum Displacement, Xmax	7.5 mm.
Vd	Displacement Volume, Vd	412 cm ³
Le @ 1 kHz	Voice Coil Inductance, Le @ 1 kHz	1.7 mH

Thiele-Small parameters**



Nota: respuesta de frecuencia medida en el eje con el altavoz fijado en panel infinito en el interior de cámara anecoica, 1w @ 1m.

Note: on axis frequency response measured with loudspeaker standing on infinite baffle in anechoic chamber, 1w @ 1m.

Especificaciones técnicas

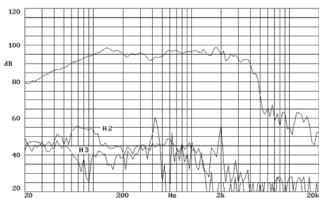
Diámetro nominal	Nominal diameter	250 mm. 10 in.
Impedancia nominal	Rated impedance	8 ohms.
Impedancia mínima	Minimum impedance	7 ohms.
Potencia admisible*	Power capacity*	350 w AES
Potencia programa	Program power	700 w
Sensibilidad	Sensitivity	95 dB 2.83v @ 1m @ 2π
Rango de frecuencias	Frequency range	45 - 5000 Hz
Volumen de caja recom.	Recom. enclosure vol.	20 / 50 l 0.71 / 1.77 ft. ³
Diámetro de bobina	Voice coil diameter	62.4 mm. 2.5 in.
Peso conjunto magnético	Magnetic assembly weight	2.54 kg. 5.59 lb.
Factor BL	BL factor	15.7 N / A
Masa móvil	Moving mass	0.043 kg.
Altura bobinado	Voice coil length	19.5 mm.
Anchura entrehierro	Air gap height	10 mm.
Desplazamiento máximo	X damage (peak to peak)	30 mm.

Technical specifications

Parámetros Thiele-Small**

Fs	Resonant frequency, fs	49 Hz
Re	D.C. Voice coil resistance, Re	6 ohms.
Qms	Mechanical Quality Factor, Qms	9.95
Qes	Electrical Quality Factor, Qes	0.33
Qts	Total Quality Factor, Qts	0.32
Vas	Equivalent Air Volume to Cms, Vas	40.7 l
Cms	Mechanical Compliance, Cms	238 μm / N
Rms	Mechanical Resistance, Rms	1.35 kg / s
η0 (%)	Efficiency, η0 (%)	1.4
Sd	Effective Surface Area, Sd	0.0350 m ²
Xmax	Maximum Displacement, Xmax	7.5 mm.
Vd	Displacement Volume, Vd	263 cm ³
Le @ 1 kHz	Voice Coil Inductance, Le @ 1 kHz	1.7 mH

Thiele-Small parameters**



Nota: respuesta de frecuencia medida en el eje con el altavoz fijado en panel infinito en el interior de cámara anecoica, 1w @ 1m.

Note: on axis frequency response measured with loudspeaker standing on infinite baffle in anechoic chamber, 1w @ 1m.

Especificaciones técnicas

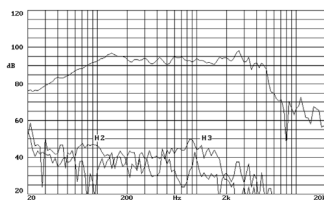
Diámetro nominal	Nominal diameter	380 mm. 15 in.
Impedancia nominal	Rated impedance	8 ohms.
Impedancia mínima	Minimum impedance	7 ohms.
Potencia admisible*	Power capacity*	500 w AES
Potencia programa	Program power	1000 w
Sensibilidad	Sensitivity	99 dB 2.83v @ 1m @ 2π
Rango de frecuencias	Frequency range	35 - 4000 Hz
Volumen de caja recom.	Recom. enclosure vol.	40 / 80 l 1.41 / 2.83 ft. ³
Diámetro de bobina	Voice coil diameter	77 mm. 3 in.
Peso conjunto magnético	Magnetic assembly weight	3.45 kg. 7.59 lb.
Factor BL	BL factor	18.9 N / A
Masa móvil	Moving mass	0.083 kg.
Altura bobinado	Voice coil length	17 mm.
Anchura entrehierro	Air gap height	8 mm.
Desplazamiento máximo	X damage (peak to peak)	30 mm.

Technical specifications

Parámetros Thiele-Small**

Fs	Resonant frequency, fs	32 Hz
Re	D.C. Voice coil resistance, Re	6.1 ohms.
Qms	Mechanical Quality Factor, Qms	8.4
Qes	Electrical Quality Factor, Qes	0.29
Qts	Total Quality Factor, Qts	0.28
Vas	Equivalent Air Volume to Cms, Vas	325 l
Cms	Mechanical Compliance, Cms	309 μm / N
Rms	Mechanical Resistance, Rms	2.1 kg / s
η0 (%)	Efficiency, η0 (%)	3.5
Sd	Effective Surface Area, Sd	0.0880 m ²
Xmax	Maximum Displacement, Xmax	7 mm.
Vd	Displacement Volume, Vd	611 cm ³
Le @ 1 kHz	Voice Coil Inductance, Le @ 1 kHz	1.4 mH

Thiele-Small parameters**



Nota: respuesta de frecuencia medida en el eje con el altavoz fijado en panel infinito en el interior de cámara anecoica, 1w @ 1m.

Note: on axis frequency response measured with loudspeaker standing on infinite baffle in anechoic chamber, 1w @ 1m.

Especificaciones técnicas

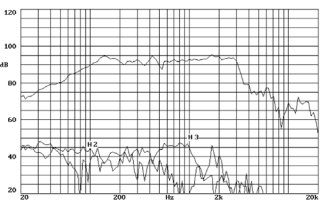
Diámetro nominal	Nominal diameter	300 mm. 12 in.
Impedancia nominal	Rated impedance	8 ohms.
Impedancia mínima	Minimum impedance	7.1 ohms.
Potencia admisible*	Power capacity*	450 w AES
Potencia programa	Program power	900 w
Sensibilidad	Sensitivity	96 dB 2.83v @ 1m @ 2π
Rango de frecuencias	Frequency range	35 - 5000 Hz
Volumen de caja recom.	Recom. enclosure vol.	20 / 70 l 0.7 / 2.5 ft. ³
Diámetro de bobina	Voice coil diameter	77 mm. 3 in.
Peso conjunto magnético	Magnetic assembly weight	3.13 kg. 6.88 lb.
Factor BL	BL factor	17.9 N / A
Masa móvil	Moving mass	0.066 kg.
Altura bobinado	Voice coil length	17 mm.
Anchura entrehierro	Air gap height	8 mm.
Desplazamiento máximo	X damage (peak to peak)	30 mm.

Technical specifications

Parámetros Thiele-Small**

Fs	Resonant frequency, fs	38 Hz
Re	D.C. Voice coil resistance, Re	6.1 ohms.
Qms	Mechanical Quality Factor, Qms	6.6
Qes	Electrical Quality Factor, Qes	0.3
Qts	Total Quality Factor, Qts	0.29
Vas	Equivalent Air Volume to Cms, Vas	109 l
Cms	Mechanical Compliance, Cms	267 μm / N
Rms	Mechanical Resistance, Rms	2.4 kg / s
η0 (%)	Efficiency, η0 (%)	2
Sd	Effective Surface Area, Sd	0.0540 m ²
Xmax	Maximum Displacement, Xmax	5 mm.
Vd	Displacement Volume, Vd	268 cm ³
Le @ 1 kHz	Voice Coil Inductance, Le @ 1 kHz	1.4 mH

Thiele-Small parameters**



Nota: respuesta de frecuencia medida en el eje con el altavoz fijado en panel infinito en el interior de cámara anecoica, 1w @ 1m.

Note: on axis frequency response measured with loudspeaker standing on infinite baffle in anechoic chamber, 1w @ 1m.

Especificaciones técnicas

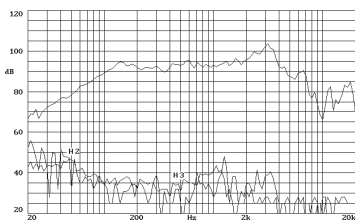
Diámetro nominal	Nominal diameter	250 mm. 10 in.
Impedancia nominal	Rated impedance	8 ohms.
Impedancia mínima	Minimum impedance	7.1 ohms.
Potencia admisible*	Power capacity*	450 w AES
Potencia programa	Program power	900 w
Sensibilidad	Sensitivity	94 dB 2.83v @ 1m @ 2π
Rango de frecuencias	Frequency range	35 - 3500 Hz
Volumen de caja recom.	Recom. enclosure vol.	20 / 70 l 0.7 / 2.5 ft. ³
Diámetro de bobina	Voice coil diameter	77 mm. 3 in.
Peso conjunto magnético	Magnetic assembly weight	3.05 kg. 6.71 lb.
Factor BL	BL factor	17.9 N / A
Masa móvil	Moving mass	0.053 kg.
Altura bobinado	Voice coil length	17 mm.
Anchura entrehierro	Air gap height	8 mm.
Desplazamiento máximo	X damage (peak to peak)	30 mm.

Technical specifications

Parámetros Thiele-Small**

Fs	Resonant frequency, fs	38 Hz
Re	D.C. Voice coil resistance, Re	6.1 ohms.
Qms	Mechanical Quality Factor, Qms	9.9
Qes	Electrical Quality Factor, Qes	0.24
Qts	Total Quality Factor, Qts	0.23
Vas	Equivalent Air Volume to Cms, Vas	56 l
Cms	Mechanical Compliance, Cms	324 μm / N
Rms	Mechanical Resistance, Rms	1.3 kg / s
η0 (%)	Efficiency, η0 (%)	1.2
Sd	Effective Surface Area, Sd	0.0350 m ²
Xmax	Maximum Displacement, Xmax	5 mm.
Vd	Displacement Volume, Vd	174 cm ³
Le @ 1 kHz	Voice Coil Inductance, Le @ 1 kHz	1.2 mH

Thiele-Small parameters**



Nota: respuesta de frecuencia medida en el eje con el altavoz fijado en panel infinito en el interior de cámara anecoica, 1w @ 1m.

Note: on axis frequency response measured with loudspeaker standing on infinite baffle in anechoic chamber, 1w @ 1m.

Especificaciones técnicas

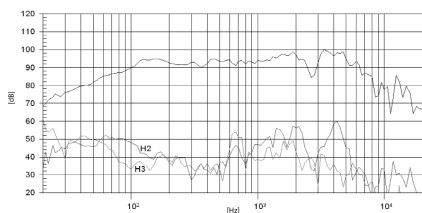
Diámetro nominal	Nominal diameter	200 mm. 8 in.
Impedancia nominal	Rated impedance	8 ohms.
Impedancia mínima	Minimum impedance	6.9 ohms.
Potencia admisible*	Power capacity*	250 w AES
Potencia programa	Program power	500 w
Sensibilidad	Sensitivity	95 dB 2.83v @ 1m @ 2π
Rango de frecuencias	Frequency range	65 - 6000 Hz
Volumen de caja recom.	Recom. enclosure vol.	10 / 30 l 0.35 / 1.06 ft. ³
Diámetro de bobina	Voice coil diameter	62.4 mm. 2.5 in.
Peso conjunto magnético	Magnetic assembly weight	2 kg. 4.4 lb.
Factor BL	BL factor	12 N / A
Masa móvil	Moving mass	0.022 kg.
Altura bobinado	Voice coil length	16 mm.
Anchura entrehierro	Air gap height	7 mm.
Desplazamiento máximo	X damage (peak to peak)	23 mm.

Technical specifications

Parámetros Thiele-Small**

Fs	Resonant frequency, fs	70 Hz
Re	D.C. Voice coil resistance, Re	5.8 ohms.
Qms	Mechanical Quality Factor, Qms	7
Qes	Electrical Quality Factor, Qes	0.39
Qts	Total Quality Factor, Qts	0.37
Vas	Equivalent Air Volume to Cms, Vas	16 l
Cms	Mechanical Compliance, Cms	232 μm / N
Rms	Mechanical Resistance, Rms	1.4 kg / s
η0 (%)	Efficiency, η0 (%)	1.35
Sd	Effective Surface Area, Sd	0.0220 m ²
Xmax	Maximum Displacement, Xmax	4.5 mm.
Vd	Displacement Volume, Vd	99 cm ³
Le @ 1 kHz	Voice Coil Inductance, Le @ 1 kHz	1.1 mH

Thiele-Small parameters**



Nota: respuesta de frecuencia medida en el eje con el altavoz fijado en panel infinito en el interior de cámara anecoica, 1w @ 1m.

Note: on axis frequency response measured with loudspeaker standing on infinite baffle in anechoic chamber, 1w @ 1m.

Especificaciones técnicas

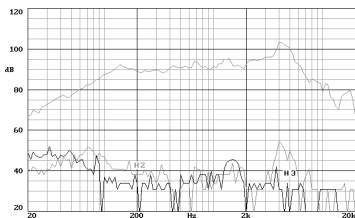
Diámetro nominal	Nominal diameter	200 mm. 8 in.
Impedancia nominal	Rated impedance	8 ohms.
Impedancia mínima	Minimum impedance	6.7 ohms.
Potencia admisible*	Power capacity*	300 w AES
Potencia programa	Program power	600 w
Sensibilidad	Sensitivity	95.4 dB 2.83v @ 1m @ 2π
Rango de frecuencias	Frequency range	50 - 8000 Hz
Volumen de caja recom.	Recom. enclosure vol.	10 / 30 l 0.35 / 1.06 ft. ³
Diámetro de bobina	Voice coil diameter	63.5 mm. 2.5 in.
Peso conjunto magnético	Magnetic assembly weight	3 kg. 6.61 lb.
Factor BL	BL factor	11 N / A
Masa móvil	Moving mass	0.022 kg.
Altura bobinado	Voice coil length	15 mm.
Anchura entrehierro	Air gap height	7 mm.
Desplazamiento máximo	X damage (peak to peak)	24 mm.

Technical specifications

Parámetros Thiele-Small**

Fs	Resonant frequency, fs	61 Hz
Re	D.C. Voice coil resistance, Re	5.2 ohms.
Qms	Mechanical Quality Factor, Qms	9.54
Qes	Electrical Quality Factor, Qes	0.34
Qts	Total Quality Factor, Qts	0.33
Vas	Equivalent Air Volume to Cms, Vas	21.49 l
Cms	Mechanical Compliance, Cms	318 μm / N
Rms	Mechanical Resistance, Rms	0.85 kg / s
η0 (%)	Efficiency, η0 (%)	1.39
Sd	Effective Surface Area, Sd	0.022 m ²
Xmax	Maximum Displacement, Xmax	6 mm.
Vd	Displacement Volume, Vd	100 cm ³
Le @ 1 kHz	Voice Coil Inductance, Le @ 1 kHz	0.8 mH

Thiele-Small parameters**



Nota: respuesta de frecuencia medida en el eje con el altavoz fijado en panel infinito en el interior de cámara anecoica, 1w @ 1m.

Note: on axis frequency response measured with loudspeaker standing on infinite baffle in anechoic chamber, 1w @ 1m.

Especificaciones técnicas

Diámetro nominal	Nominal diameter
Impedancia nominal	Rated impedance
Impedancia mínima	Minimum impedance
Potencia admisible*	Power capacity*
Potencia programa	Program power
Sensibilidad	Sensitivity
Rango de frecuencias	Frequency range
Volumen de caja recom.	Recom. enclosure vol.
Diámetro de bobina	Voice coil diameter
Peso conjunto magnético	Magnetic assembly weight
Factor BL	BL factor
Masa móvil	Moving mass
Altura bobinado	Voice coil length
Anchura entrehierro	Air gap height
Desplazamiento máximo	X damage (peak to peak)

Technical specifications

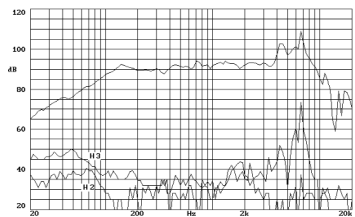
Nominal diameter	165 mm. 6.5 in.
Rated impedance	8 ohms.
Minimum impedance	5.8 ohms.
Power capacity*	200 w AES
Program power	400 w
Sensitivity	92 dB 2.83v @ 1m @ 2rt
Frequency range	60 - 9000 Hz
Recom. enclosure vol.	10 / 40 l 0.35 / 1.4 ft. ³
Voice coil diameter	51.7 mm. 2 in.
Magnetic assembly weight	1.6 kg. 3.52 lb.
BL factor	10.5 N / A
Moving mass	0.017 kg.
Voice coil length	14 mm.
Air gap height	7 mm.
X damage (peak to peak)	20 mm.

Parámetros Thiele-Small**

Fs	Resonant frequency, fs
Re	D.C. Voice coil resistance, Re
Qms	Mechanical Quality Factor, Qms
Qes	Electrical Quality Factor, Qes
Qts	Total Quality Factor, Qts
Vas	Equivalent Air Volume to Cms, Vas
Cms	Mechanical Compliance, Cms
Rms	Mechanical Resistance, Rms
η0 (%)	Efficiency, η0 (%)
Sd	Effective Surface Area, Sd
Xmax	Maximum Displacement, Xmax
Vd	Displacement Volume, Vd
Le @ 1 kHz	Voice Coil Inductance, Le @ 1 kHz

Thiele-Small parameters**

Resonant frequency, fs	56 Hz
D.C. Voice coil resistance, Re	5.3 ohms.
Mechanical Quality Factor, Qms	3.69
Electrical Quality Factor, Qes	0.32
Total Quality Factor, Qts	0.29
Equivalent Air Volume to Cms, Vas	11.9 l
Mechanical Compliance, Cms	468 μm / N
Mechanical Resistance, Rms	1.6 kg / s
Efficiency, η0 (%)	0.65
Effective Surface Area, Sd	0.0135 m ²
Maximum Displacement, Xmax	5.5 mm.
Displacement Volume, Vd	74.25 cm ³
Voice Coil Inductance, Le @ 1 kHz	0.6 mH



Nota: respuesta de frecuencia medida en el eje con el altavoz fijado en panel infinito en el interior de cámara anecoica, 1w @ 1m.

Note: on axis frequency response measured with loudspeaker standing on infinite baffle in anechoic chamber, 1w @ 1m.

Especificaciones técnicas

Diámetro nominal	Nominal diameter
Impedancia nominal	Rated impedance
Impedancia mínima	Minimum impedance
Potencia admisible*	Power capacity*
Potencia programa	Program power
Sensibilidad	Sensitivity
Rango de frecuencias	Frequency range
Volumen de caja recom.	Recom. enclosure vol.
Diámetro de bobina	Voice coil diameter
Peso conjunto magnético	Magnetic assembly weight
Factor BL	BL factor
Masa móvil	Moving mass
Altura bobinado	Voice coil length
Anchura entrehierro	Air gap height
Desplazamiento máximo	X damage (peak to peak)

Technical specifications

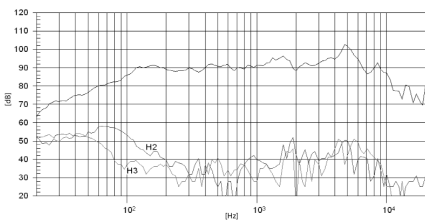
Nominal diameter	165 mm. 6.5 in.
Rated impedance	8 ohms.
Minimum impedance	5.9 ohms.
Power capacity*	200 w AES
Program power	400 w
Sensitivity	92.7 dB 2.83v @ 1m @ 2rt
Frequency range	60 - 9000 Hz
Recom. enclosure vol.	10 / 40 l 0.35 / 1.4 ft. ³
Voice coil diameter	51.7 mm. 2 in.
Magnetic assembly weight	2 kg. 4.4 lb.
BL factor	10.1 N / A
Moving mass	0.017 kg.
Voice coil length	14 mm.
Air gap height	9 mm.
X damage (peak to peak)	20 mm.

Parámetros Thiele-Small**

Fs	Resonant frequency, fs
Re	D.C. Voice coil resistance, Re
Qms	Mechanical Quality Factor, Qms
Qes	Electrical Quality Factor, Qes
Qts	Total Quality Factor, Qts
Vas	Equivalent Air Volume to Cms, Vas
Cms	Mechanical Compliance, Cms
Rms	Mechanical Resistance, Rms
η0 (%)	Efficiency, η0 (%)
Sd	Effective Surface Area, Sd
Xmax	Maximum Displacement, Xmax
Vd	Displacement Volume, Vd
Le @ 1 kHz	Voice Coil Inductance, Le @ 1 kHz

Thiele-Small parameters**

Resonant frequency, fs	65 Hz
D.C. Voice coil resistance, Re	5 ohms.
Mechanical Quality Factor, Qms	3.58
Electrical Quality Factor, Qes	0.34
Total Quality Factor, Qts	0.31
Equivalent Air Volume to Cms, Vas	9.13 l
Mechanical Compliance, Cms	532 μm / N
Mechanical Resistance, Rms	1.94 kg / s
Efficiency, η0 (%)	0.71
Effective Surface Area, Sd	0.0135 m ²
Maximum Displacement, Xmax	5.5 mm.
Displacement Volume, Vd	74.25 cm ³
Voice Coil Inductance, Le @ 1 kHz	0.6 mH



Nota: respuesta de frecuencia medida en el eje con el altavoz fijado en panel infinito en el interior de cámara anecoica, 1w @ 1m.

Note: on axis frequency response measured with loudspeaker standing on infinite baffle in anechoic chamber, 1w @ 1m.

Especificaciones técnicas

Diámetro nominal	Nominal diameter
Impedancia nominal	Rated impedance
Impedancia mínima	Minimum impedance
Potencia admisible*	Power capacity*
Potencia programa	Program power
Sensibilidad	Sensitivity
Rango de frecuencias	Frequency range
Volumen de caja recom.	Recom. enclosure vol.
Diámetro de bobina	Voice coil diameter
Peso conjunto magnético	Magnetic assembly weight
Factor BL	BL factor
Masa móvil	Moving mass
Altura bobinado	Voice coil length
Anchura entrehierro	Air gap height
Desplazamiento máximo	X damage (peak to peak)

Technical specifications

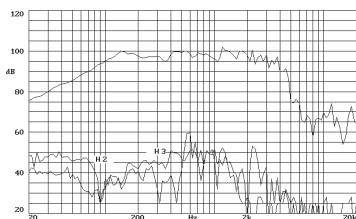
Nominal diameter	127 mm. 5 in.
Rated impedance	8 ohms.
Minimum impedance	6.7 ohms.
Power capacity*	150 w AES
Program power	300 w
Sensitivity	92 dB 2.83v @ 1m @ 2π
Frequency range	70 - 10.000 Hz
Recom. enclosure vol.	10 / 20 l 0.35 / 0.75 ft. ³
Voice coil diameter	38 mm. 1.5 in.
Magnetic assembly weight	1.9 kg. 4.19 lb.
BL factor	8.5 N / A
Moving mass	0.01 kg.
Voice coil length	14 mm.
Air gap height	6 mm.
X damage (peak to peak)	16 mm.

Parámetros Thiele-Small**

Fs	Resonant frequency, fs
Re	D.C. Voice coil resistance, Re
Qms	Mechanical Quality Factor, Qms
Qes	Electrical Quality Factor, Qes
Qts	Total Quality Factor, Qts
Vas	Equivalent Air Volume to Cms, Vas
Cms	Mechanical Compliance, Cms
Rms	Mechanical Resistance, Rms
η0 (%)	Efficiency, η0 (%)
Sd	Effective Surface Area, Sd
Xmax	Maximum Displacement, Xmax
Vd	Displacement Volume, Vd
Le @ 1 kHz	Voice Coil Inductance, Le @ 1 kHz

Thiele-Small parameters**

Resonant frequency, fs	72 Hz
D.C. Voice coil resistance, Re	5.2 ohms.
Mechanical Quality Factor, Qms	7.50
Electrical Quality Factor, Qes	0.35
Total Quality Factor, Qts	0.33
Equivalent Air Volume to Cms, Vas	5.69 l
Mechanical Compliance, Cms	451 μm / N
Mechanical Resistance, Rms	0.65 kg / s
Efficiency, η0 (%)	0.58
Effective Surface Area, Sd	95 m ²
Maximum Displacement, Xmax	0.095 mm.
Displacement Volume, Vd	49 cm ³
Voice Coil Inductance, Le @ 1 kHz	0.6 mH



Nota: respuesta de frecuencia medida en el eje con el altavoz fijado en panel infinito en el interior de cámara anecoica, 1w @ 1m.

Note: on axis frequency response measured with loudspeaker standing on infinite baffle in anechoic chamber, 1w @ 1m.

Especificaciones técnicas

Diámetro nominal	Nominal diameter
Impedancia nominal	Rated impedance
Impedancia mínima	Minimum impedance
Potencia admisible*	Power capacity*
Potencia programa	Program power
Sensibilidad	Sensitivity
Rango de frecuencias	Frequency range
Volumen de caja recom.	Recom. enclosure vol.
Diámetro de bobina	Voice coil diameter
Peso conjunto magnético	Magnetic assembly weight
Factor BL	BL factor
Masa móvil	Moving mass
Altura bobinado	Voice coil length
Anchura entrehierro	Air gap height
Desplazamiento máximo	X damage (peak to peak)

Technical specifications

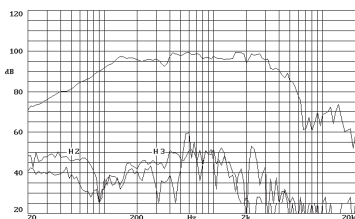
Nominal diameter	380 mm. 15 in.
Rated impedance	8 ohms.
Minimum impedance	7.5 ohms.
Power capacity*	450 w AES
Program power	900 w
Sensitivity	101 dB 2.83v @ 1m @ 2π
Frequency range	30 - 4000 Hz
Recom. enclosure vol.	40 / 100 l 0.7 / 1.75 ft. ³
Voice coil diameter	77 mm. 3 in.
Magnetic assembly weight	6.5 kg. 14.2 lb.
BL factor	21.6 N / A
Moving mass	0.072 kg.
Voice coil length	13.5 mm.
Air gap height	9.5 mm.
X damage (peak to peak)	24 mm.

Parámetros Thiele-Small**

Fs	Resonant frequency, fs
Re	D.C. Voice coil resistance, Re
Qms	Mechanical Quality Factor, Qms
Qes	Electrical Quality Factor, Qes
Qts	Total Quality Factor, Qts
Vas	Equivalent Air Volume to Cms, Vas
Cms	Mechanical Compliance, Cms
Rms	Mechanical Resistance, Rms
η0 (%)	Efficiency, η0 (%)
Sd	Effective Surface Area, Sd
Xmax	Maximum Displacement, Xmax
Vd	Displacement Volume, Vd
Le @ 1 kHz	Voice Coil Inductance, Le @ 1 kHz

Thiele-Small parameters**

Resonant frequency, fs	48 Hz
D.C. Voice coil resistance, Re	6.3 ohms.
Mechanical Quality Factor, Qms	6.38
Electrical Quality Factor, Qes	0.30
Total Quality Factor, Qts	0.28
Equivalent Air Volume to Cms, Vas	166 l
Mechanical Compliance, Cms	153 μm / N
Mechanical Resistance, Rms	3.3 kg / s
Efficiency, η0 (%)	6
Effective Surface Area, Sd	0.0880 m ²
Maximum Displacement, Xmax	2 mm.
Displacement Volume, Vd	175 cm ³
Voice Coil Inductance, Le @ 1 kHz	2.3 mH



Nota: respuesta de frecuencia medida en el eje con el altavoz fijado en panel infinito en el interior de cámara anecoica, 1w @ 1m.

Note: on axis frequency response measured with loudspeaker standing on infinite baffle in anechoic chamber, 1w @ 1m.

Especificaciones técnicas

Diámetro nominal	Impedancia nominal	Impedancia mínima	Potencia admisible*	Potencia programa	Sensibilidad	Rango de frecuencias	Volumen de caja recom.	Diámetro de bobina	Peso conjunto magnético	Factor BL	Masa móvil	Altura bobinado	Anchura entrehierro	Desplazamiento máximo
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Technical specifications

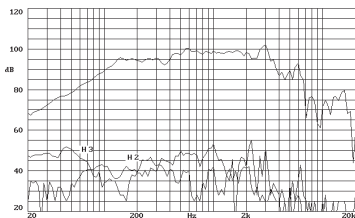
Nominal diameter	Rated impedance	Minimum impedance	Power capacity*	Program power	Sensitivity	Frequency range	Recom. enclosure vol.	Voice coil diameter	Magnetic assembly weight	BL factor	Moving mass	Voice coil length	Air gap height	X damage (peak to peak)
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Parámetros Thiele-Small**

Fs	Re	Qms	Qes	Qts	Vas	Cms	Rms	η0 (%)	Sd	Xmax	Vd	Le @ 1 kHz
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Thiele-Small parameters**

Resonant frequency, fs	D.C. Voice coil resistance, Re	Mechanical Quality Factor, Qms	Electrical Quality Factor, Qes	Total Quality Factor, Qts	Equivalent Air Volume to Cms, Vas	Mechanical Compliance, Cms	Mechanical Resistance, Rms	Efficiency, η0 (%)	Effective Surface Area, Sd	Maximum Displacement, Xmax	Displacement Volume, Vd	Voice Coil Inductance, Le @ 1 kHz
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Nota: respuesta de frecuencia medida en el eje con el altavoz fijado en panel infinito en el interior de cámara anecoica, 1w @ 1m.

Note: on axis frequency response measured with loudspeaker standing on infinite baffle in anechoic chamber, 1w @ 1m.

Especificaciones técnicas

Diámetro nominal	Impedancia nominal	Impedancia mínima	Potencia admisible*	Potencia programa	Sensibilidad	Rango de frecuencias	Volumen de caja recom.	Diámetro de bobina	Peso conjunto magnético	Factor BL	Masa móvil	Altura bobinado	Anchura entrehierro	Desplazamiento máximo
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Technical specifications

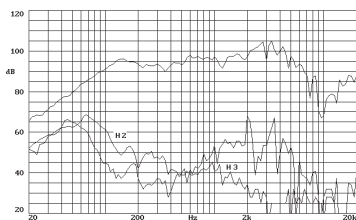
Nominal diameter	Rated impedance	Minimum impedance	Power capacity*	Program power	Sensitivity	Frequency range	Recom. enclosure vol.	Voice coil diameter	Magnetic assembly weight	BL factor	Moving mass	Voice coil length	Air gap height	X damage (peak to peak)
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Parámetros Thiele-Small**

Fs	Re	Qms	Qes	Qts	Vas	Cms	Rms	η0 (%)	Sd	Xmax	Vd	Le @ 1 kHz
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Thiele-Small parameters**

Resonant frequency, fs	D.C. Voice coil resistance, Re	Mechanical Quality Factor, Qms	Electrical Quality Factor, Qes	Total Quality Factor, Qts	Equivalent Air Volume to Cms, Vas	Mechanical Compliance, Cms	Mechanical Resistance, Rms	Efficiency, η0 (%)	Effective Surface Area, Sd	Maximum Displacement, Xmax	Displacement Volume, Vd	Voice Coil Inductance, Le @ 1 kHz
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Nota: respuesta de frecuencia medida en el eje con el altavoz fijado en panel infinito en el interior de cámara anecoica, 1w @ 1m.

Note: on axis frequency response measured with loudspeaker standing on infinite baffle in anechoic chamber, 1w @ 1m.

MI100 SERIES / 8MI100

Especificaciones técnicas

Diámetro nominal	200 mm. 8 in.
Impedancia nominal	8 ohms.
Impedancia mínima	6.5 ohms.
Potencia admisible*	250 w AES
Potencia programa	500 w
Sensibilidad	98 dB 2.83v @ 1m @ 2π
Rango de frecuencias	150 - 7000 Hz
Diámetro de bobina	51.7 mm. 2 in.
Peso conjunto magnético	2.8 kg. 6.17 lb.
Factor BL	10.4 N / A
Masa móvil	0.017 kg.
Altura bobinado	8 mm.
Anchura entrehierro	7 mm.

Technical specifications

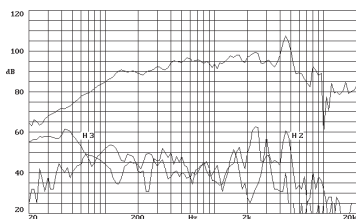
Nominal diameter	200 mm. 8 in.
Rated impedance	8 ohms.
Minimum impedance	6.5 ohms.
Power capacity*	250 w AES
Program power	500 w
Sensitivity	98 dB 2.83v @ 1m @ 2π
Frequency range	150 - 7000 Hz
Voice coil diameter	51.7 mm. 2 in.
Magnetic assembly weight	2.8 kg. 6.17 lb.
BL factor	10.4 N / A
Moving mass	0.017 kg.
Voice coil length	8 mm.
Air gap height	7 mm.

Parámetros Thiele-Small**

Fs	90 Hz
Re	6 ohms.
Qms	8.5
Qes	0.488
Qts	0.388
Vas	13 l
Cms	186 μm / N
Rms	1.2 kg / s
ηo (%)	0.988
Sd	0.0220 m ²
Xmax	1 mm.
Vd	22 cm ³
Le @ 1 kHz	0.2 mH

Thiele-Small parameters**

Resonant frequency, fs	90 Hz
D.C. Voice coil resistance, Re	6 ohms.
Mechanical Quality Factor, Qms	8.5
Electrical Quality Factor, Qes	0.488
Total Quality Factor, Qts	0.388
Equivalent Air Volume to Cms, Vas	13 l
Mechanical Compliance, Cms	186 μm / N
Mechanical Resistance, Rms	1.2 kg / s
Efficiency, ηo (%)	0.988
Effective Surface Area, Sd	0.0220 m ²
Maximum Displacement, Xmax	1 mm.
Displacement Volume, Vd	22 cm ³
Voice Coil Inductance, Le @ 1 kHz	0.2 mH



Nota: respuesta de frecuencia medida en el eje con el altavoz fijado en panel infinito en el interior de cámara anecoica, 1w @ 1m.

Note: on axis frequency response measured with loudspeaker standing on infinite baffle in anechoic chamber, 1w @ 1m.

MI100 SERIES / 6MI100

Especificaciones técnicas

Diámetro nominal	165 mm. 6.5 in.
Impedancia nominal	8 ohms.
Impedancia mínima	6.6 ohms.
Potencia admisible*	250 w AES
Potencia programa	500 w
Sensibilidad	97 dB 2.83v @ 1m @ 2π
Rango de frecuencias	150 - 6000 Hz
Diámetro de bobina	51.7 mm. 2 in.
Peso conjunto magnético	2 kg. 4.4 lb.
Factor BL	10.4 N / A
Masa móvil	0.014 kg.
Altura bobinado	8 mm.
Anchura entrehierro	7 mm.

Technical specifications

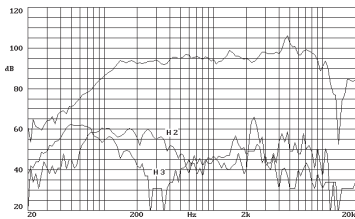
Nominal diameter	165 mm. 6.5 in.
Rated impedance	8 ohms.
Minimum impedance	6.6 ohms.
Power capacity*	250 w AES
Program power	500 w
Sensitivity	97 dB 2.83v @ 1m @ 2π
Frequency range	150 - 6000 Hz
Voice coil diameter	51.7 mm. 2 in.
Magnetic assembly weight	2 kg. 4.4 lb.
BL factor	10.4 N / A
Moving mass	0.014 kg.
Voice coil length	8 mm.
Air gap height	7 mm.

Parámetros Thiele-Small**

Fs	100 Hz
Re	6 ohms.
Qms	1.9
Qes	0.533
Qts	0.502
Vas	5 l
Cms	183 μm / N
Rms	4.6 kg / s
ηo (%)	1.714
Sd	0.0140 m ²
Xmax	1 mm.
Vd	14 cm ³
Le @ 1 kHz	0.2 mH

Thiele-Small parameters**

Resonant frequency, fs	100 Hz
D.C. Voice coil resistance, Re	6 ohms.
Mechanical Quality Factor, Qms	1.9
Electrical Quality Factor, Qes	0.533
Total Quality Factor, Qts	0.502
Equivalent Air Volume to Cms, Vas	5 l
Mechanical Compliance, Cms	183 μm / N
Mechanical Resistance, Rms	4.6 kg / s
Efficiency, ηo (%)	1.714
Effective Surface Area, Sd	0.0140 m ²
Maximum Displacement, Xmax	1 mm.
Displacement Volume, Vd	14 cm ³
Voice Coil Inductance, Le @ 1 kHz	0.2 mH



Nota: respuesta de frecuencia medida en el eje con el altavoz fijado en panel infinito en el interior de cámara anecoica, 1w @ 1m.

Note: on axis frequency response measured with loudspeaker standing on infinite baffle in anechoic chamber, 1w @ 1m.

Especificaciones técnicas

Diámetro nominal	Nominal diameter	165 mm. 6.5 in.
Impedancia nominal	Rated impedance	8 ohms.
Impedancia mínima	Minimum impedance	7.1 ohms.
Potencia admisible*	Power capacity*	125 w AES
Potencia programa	Program power	250 w
Sensibilidad	Sensitivity	98 dB 2.83v @ 1m @ 2rt
Rango de frecuencias	Frequency range	150 - 8000 Hz
Diámetro de bobina	Voice coil diameter	38.5 mm. 1.5 in.
Peso conjunto magnético	Magnetic assembly weight	2 kg. 4.4 lb.
Factor BL	BL factor	9.6 N / A
Masa móvil	Moving mass	0.009 kg.
Altura bobinado	Voice coil length	7 mm.
Anchura entrehierro	Air gap height	6 mm.

Technical specifications

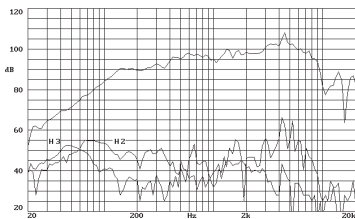
Nominal diameter	165 mm. 6.5 in.
Rated impedance	8 ohms.
Minimum impedance	7.1 ohms.
Power capacity*	125 w AES
Program power	250 w
Sensitivity	98 dB 2.83v @ 1m @ 2rt
Frequency range	150 - 8000 Hz
Voice coil diameter	38.5 mm. 1.5 in.
Magnetic assembly weight	2 kg. 4.4 lb.
BL factor	9.6 N / A
Moving mass	0.009 kg.
Voice coil length	7 mm.
Air gap height	6 mm.

Parámetros Thiele-Small**

Fs	Resonant frequency, fs	120 Hz
Re	D.C. Voice coil resistance, Re	6 ohms.
Qms	Mechanical Quality Factor, Qms	6.8
Qes	Electrical Quality Factor, Qes	0.47
Qts	Total Quality Factor, Qts	0.44
Vas	Equivalent Air Volume to Cms, Vas	7 l
Cms	Mechanical Compliance, Cms	195 µm / N
Rms	Mechanical Resistance, Rms	1 kg / s
ηo (%)	Efficiency, ηo (%)	1.7
Sd	Effective Surface Area, Sd	0.0140 m²
Xmax	Maximum Displacement, Xmax	1 mm.
Vd	Displacement Volume, Vd	14 cm³
Le @ 1 kHz	Voice Coil Inductance, Le @ 1 kHz	0.5 mH

Thiele-Small parameters**

Resonant frequency, fs	120 Hz
D.C. Voice coil resistance, Re	6 ohms.
Mechanical Quality Factor, Qms	6.8
Electrical Quality Factor, Qes	0.47
Total Quality Factor, Qts	0.44
Equivalent Air Volume to Cms, Vas	7 l
Mechanical Compliance, Cms	195 µm / N
Mechanical Resistance, Rms	1 kg / s
Efficiency, ηo (%)	1.7
Effective Surface Area, Sd	0.0140 m²
Maximum Displacement, Xmax	1 mm.
Displacement Volume, Vd	14 cm³
Voice Coil Inductance, Le @ 1 kHz	0.5 mH



Nota: respuesta de frecuencia medida en el eje con el altavoz fijado en panel infinito en el interior de cámara anecoica, 1w @ 1m.

Note: on axis frequency response measured with loudspeaker standing on infinite baffle in anechoic chamber, 1w @ 1m.

Especificaciones técnicas

Diámetro nominal	Nominal diameter	165 mm. 6.5 in.
Impedancia nominal	Rated impedance	8 ohms.
Impedancia mínima	Minimum impedance	6.6 ohms.
Potencia admisible*	Power capacity*	125 w AES
Potencia programa	Program power	250 w
Sensibilidad	Sensitivity	100 dB 2.83v @ 1m @ 2rt
Rango de frecuencias	Frequency range	150 - 8000 Hz
Diámetro de bobina	Voice coil diameter	38.5 mm. 1.5 in.
Peso conjunto magnético	Magnetic assembly weight	1.2 kg. 2.65 lb.
Factor BL	BL factor	13.15 N / A
Masa móvil	Moving mass	0.010 kg.
Altura bobinado	Voice coil length	7 mm.
Anchura entrehierro	Air gap height	6 mm.

Technical specifications

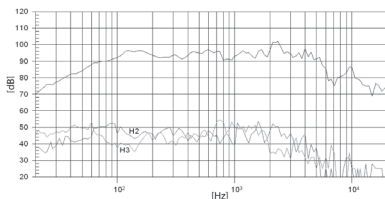
Nominal diameter	165 mm. 6.5 in.
Rated impedance	8 ohms.
Minimum impedance	6.6 ohms.
Power capacity*	125 w AES
Program power	250 w
Sensitivity	100 dB 2.83v @ 1m @ 2rt
Frequency range	150 - 8000 Hz
Voice coil diameter	38.5 mm. 1.5 in.
Magnetic assembly weight	1.2 kg. 2.65 lb.
BL factor	13.15 N / A
Moving mass	0.010 kg.
Voice coil length	7 mm.
Air gap height	6 mm.

Parámetros Thiele-Small**

Fs	Resonant frequency, fs	150 Hz
Re	D.C. Voice coil resistance, Re	6 ohms.
Qms	Mechanical Quality Factor, Qms	9.68
Qes	Electrical Quality Factor, Qes	0.32
Qts	Total Quality Factor, Qts	0.31
Vas	Equivalent Air Volume to Cms, Vas	3 l
Cms	Mechanical Compliance, Cms	100 µm / N
Rms	Mechanical Resistance, Rms	1.1 kg / s
ηo (%)	Efficiency, ηo (%)	3.3
Sd	Effective Surface Area, Sd	0.0140 m²
Xmax	Maximum Displacement, Xmax	1 mm.
Vd	Displacement Volume, Vd	14 cm³
Le @ 1 kHz	Voice Coil Inductance, Le @ 1 kHz	0.5 mH

Thiele-Small parameters**

Resonant frequency, fs	150 Hz
D.C. Voice coil resistance, Re	6 ohms.
Mechanical Quality Factor, Qms	9.68
Electrical Quality Factor, Qes	0.32
Total Quality Factor, Qts	0.31
Equivalent Air Volume to Cms, Vas	3 l
Mechanical Compliance, Cms	100 µm / N
Mechanical Resistance, Rms	1.1 kg / s
Efficiency, ηo (%)	3.3
Effective Surface Area, Sd	0.0140 m²
Maximum Displacement, Xmax	1 mm.
Displacement Volume, Vd	14 cm³
Voice Coil Inductance, Le @ 1 kHz	0.5 mH



Nota: respuesta de frecuencia medida en el eje con el altavoz fijado en panel infinito en el interior de cámara anecoica, 1w @ 1m.

Note: on axis frequency response measured with loudspeaker standing on infinite baffle in anechoic chamber, 1w @ 1m.

CM-10

Especificaciones técnicas

Diámetro nominal	Nominal diameter	258 mm. 10 in.
Impedancia nominal	Rated impedance	8 ohms.
Impedancia mínima	Minimum impedance	7.4 ohms.
Potencia admisible*	Power capacity*	125 w AES
Potencia programa	Program power	250 w
Sensibilidad	Sensitivity	95.3 dB 2.83v @ 1m @ 2π
Rango de frecuencias	Frequency range	40 - 5000 Hz
Volumen de caja recom.	Recom. enclosure vol.	40 / 100 l 1.41 / 3.53 ft. ³
Diámetro de bobina	Voice coil diameter	38.5 mm. 1.5 in.
Peso conjunto magnético	Magnetic assembly weight	2.75 kg. 6.06 lb.
Factor BL	BL factor	12.2 N / A
Masa móvil	Moving mass	0.035 kg.
Altura bobinado	Voice coil length	16 mm.
Anchura entrehierro	Air gap height	7 mm.
Desplazamiento máximo	X damage (peak to peak)	24.5 mm.

Technical specifications

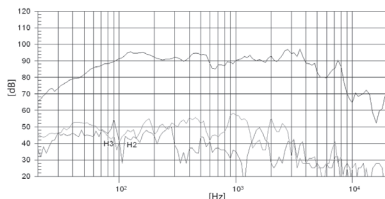
Nominal diameter	258 mm. 10 in.
Rated impedance	8 ohms.
Minimum impedance	7.4 ohms.
Power capacity*	125 w AES
Program power	250 w
Sensitivity	95.3 dB 2.83v @ 1m @ 2π
Frequency range	40 - 5000 Hz
Recom. enclosure vol.	40 / 100 l 1.41 / 3.53 ft. ³
Voice coil diameter	38.5 mm. 1.5 in.
Magnetic assembly weight	2.75 kg. 6.06 lb.
BL factor	12.2 N / A
Moving mass	0.035 kg.
Voice coil length	16 mm.
Air gap height	7 mm.
X damage (peak to peak)	24.5 mm.

Parámetros Thiele-Small**

Fs	Resonant frequency, fs	61 Hz
Re	D.C. Voice coil resistance, Re	6.15 ohms.
Qms	Mechanical Quality Factor, Qms	6.38
Qes	Electrical Quality Factor, Qes	0.55
Qts	Total Quality Factor, Qts	0.51
Vas	Equivalent Air Volume to Cms, Vas	40.7 l
Cms	Mechanical Compliance, Cms	192 μm / N
Rms	Mechanical Resistance, Rms	2.13 kg / s
η0 (%)	Efficiency, η0 (%)	1.60
Sd	Effective Surface Area, Sd	0.039 m ²
Xmax	Maximum Displacement, Xmax	6.5 mm.
Vd	Displacement Volume, Vd	195 cm ³
Le @ 1 kHz	Voice Coil Inductance, Le @ 1 kHz	1.2 mH

Thiele-Small parameters**

Resonant frequency, fs	61 Hz
D.C. Voice coil resistance, Re	6.15 ohms.
Mechanical Quality Factor, Qms	6.38
Electrical Quality Factor, Qes	0.55
Total Quality Factor, Qts	0.51
Equivalent Air Volume to Cms, Vas	40.7 l
Mechanical Compliance, Cms	192 μm / N
Mechanical Resistance, Rms	2.13 kg / s
Efficiency, η0 (%)	1.60
Effective Surface Area, Sd	0.039 m ²
Maximum Displacement, Xmax	6.5 mm.
Displacement Volume, Vd	195 cm ³
Voice Coil Inductance, Le @ 1 kHz	1.2 mH



Nota: respuesta de frecuencia medida en el eje con el altavoz fijado en panel infinito en el interior de cámara anecoica, 1w @ 1m.

Note: on axis frequency response measured with loudspeaker standing on infinite baffle in anechoic chamber, 1w @ 1m.

CM-8B

Especificaciones técnicas

Diámetro nominal	Nominal diameter	200 mm. 8 in.
Impedancia nominal	Rated impedance	8 ohms.
Impedancia mínima	Minimum impedance	7.7 ohms.
Potencia admisible*	Power capacity*	100 w AES
Potencia programa	Program power	200 w
Sensibilidad	Sensitivity	92.4 dB 2.83v @ 1m @ 2π
Rango de frecuencias	Frequency range	40 - 5000 Hz
Volumen de caja recom.	Recom. enclosure vol.	20 / 60 l 0.71 / 2.12 ft. ³
Diámetro de bobina	Voice coil diameter	38.1 mm. 1.5 in.
Peso conjunto magnético	Magnetic assembly weight	1.8 kg. 3.97 lb.
Factor BL	BL factor	9.8 N / A
Masa móvil	Moving mass	0.022 kg.
Altura bobinado	Voice coil length	16 mm.
Anchura entrehierro	Air gap height	6 mm.
Desplazamiento máximo	X damage (peak to peak)	25 mm.

Technical specifications

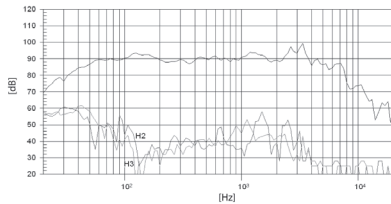
Nominal diameter	200 mm. 8 in.
Rated impedance	8 ohms.
Minimum impedance	7.7 ohms.
Power capacity*	100 w AES
Program power	200 w
Sensitivity	92.4 dB 2.83v @ 1m @ 2π
Frequency range	40 - 5000 Hz
Recom. enclosure vol.	20 / 60 l 0.71 / 2.12 ft. ³
Voice coil diameter	38.1 mm. 1.5 in.
Magnetic assembly weight	1.8 kg. 3.97 lb.
BL factor	9.8 N / A
Moving mass	0.022 kg.
Voice coil length	16 mm.
Air gap height	6 mm.
X damage (peak to peak)	25 mm.

Parámetros Thiele-Small**

Fs	Resonant frequency, fs	73 Hz
Re	D.C. Voice coil resistance, Re	6.2 ohms.
Qms	Mechanical Quality Factor, Qms	13.46
Qes	Electrical Quality Factor, Qes	0.65
Qts	Total Quality Factor, Qts	0.62
Vas	Equivalent Air Volume to Cms, Vas	14.6 l
Cms	Mechanical Compliance, Cms	216 μm / N
Rms	Mechanical Resistance, Rms	0.75 kg / s
η0 (%)	Efficiency, η0 (%)	0.84
Sd	Effective Surface Area, Sd	0.022 m ²
Xmax	Maximum Displacement, Xmax	6.7 mm.
Vd	Displacement Volume, Vd	124 cm ³
Le @ 1 kHz	Voice Coil Inductance, Le @ 1 kHz	1.2 mH

Thiele-Small parameters**

Resonant frequency, fs	73 Hz
D.C. Voice coil resistance, Re	6.2 ohms.
Mechanical Quality Factor, Qms	13.46
Electrical Quality Factor, Qes	0.65
Total Quality Factor, Qts	0.62
Equivalent Air Volume to Cms, Vas	14.6 l
Mechanical Compliance, Cms	216 μm / N
Mechanical Resistance, Rms	0.75 kg / s
Efficiency, η0 (%)	0.84
Effective Surface Area, Sd	0.022 m ²
Maximum Displacement, Xmax	6.7 mm.
Displacement Volume, Vd	124 cm ³
Voice Coil Inductance, Le @ 1 kHz	1.2 mH



Nota: respuesta de frecuencia medida en el eje con el altavoz fijado en panel infinito en el interior de cámara anecoica, 1w @ 1m.

Note: on axis frequency response measured with loudspeaker standing on infinite baffle in anechoic chamber, 1w @ 1m.

BF-8R

Especificaciones técnicas

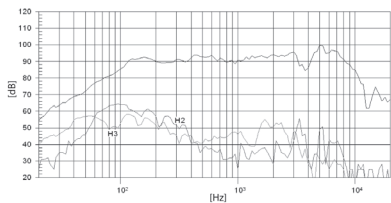
Diámetro nominal	Nominal diameter	200 mm. 8 in.
Impedancia nominal	Rated impedance	8 ohms.
Impedancia mínima	Minimum impedance	6.8 ohms.
Potencia admisible*	Power capacity*	50 w AES
Potencia programa	Program power	100 w
Sensibilidad	Sensitivity	90 dB 2.83v @ 1m @ 2rt
Rango de frecuencias	Frequency range	30 - 6000 Hz
Volumen de caja recom.	Recom. enclosure vol.	15 / 40 l 0.53 / 1.41 ft. ³
Diámetro de bobina	Voice coil diameter	25.8 mm. 1 in.
Peso conjunto magnético	Magnetic assembly weight	1 kg. 2.2 lb.
Factor BL	BL factor	5.9 N / A
Masa móvil	Moving mass	0.021 kg.
Altura bobinado	Voice coil length	14 mm.
Anchura entrehierro	Air gap height	6 mm.
Desplazamiento máximo	X damage (peak to peak)	21 mm.

Technical specifications

Parámetros Thiele-Small**

Fs	Resonant frequency, fs	52 Hz
Re	D.C. Voice coil resistance, Re	5.5 ohms.
Qms	Mechanical Quality Factor, Qms	5.56
Qes	Electrical Quality Factor, Qes	1.10
Qts	Total Quality Factor, Qts	0.92
Vas	Equivalent Air Volume to Cms, Vas	29.6 l
Cms	Mechanical Compliance, Cms	438 μm / N
Rms	Mechanical Resistance, Rms	1.26 kg / s
η ₀ (%)	Efficiency, η ₀ (%)	0.36
Sd	Effective Surface Area, Sd	0.022 m ²
Xmax	Maximum Displacement, Xmax	5.7 mm.
Vd	Displacement Volume, Vd	110 cm ³
Le @ 1 kHz	Voice Coil Inductance, Le @ 1 kHz	6.00 mH

Thiele-Small parameters**



Nota: respuesta de frecuencia medida en el eje con el altavoz fijado en panel infinito en el interior de cámara anecoica, 1w @ 1m.

Note: on axis frequency response measured with loudspeaker standing on infinite baffle in anechoic chamber, 1w @ 1m.

CM-6

Especificaciones técnicas

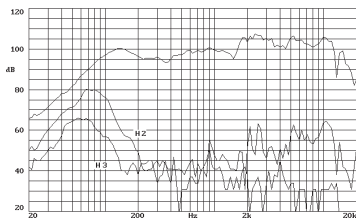
Diámetro nominal	Nominal diameter	165 mm. 6.5 in.
Impedancia nominal	Rated impedance	8 ohms.
Impedancia mínima	Minimum impedance	7.5 ohms.
Potencia admisible*	Power capacity*	80 w AES
Potencia programa	Program power	160 w
Sensibilidad	Sensitivity	90.7 dB 2.83v @ 1m @ 2rt
Rango de frecuencias	Frequency range	150 - 6000 Hz
Volumen de caja recom.	Recom. enclosure vol.	10 / 40 l 0.35 / 1.41 ft. ³
Diámetro de bobina	Voice coil diameter	38.5 mm. 1.5 in.
Peso conjunto magnético	Magnetic assembly weight	2 kg. 4.40 lb.
Factor BL	BL factor	8.1 N / A
Masa móvil	Moving mass	0.014 kg.
Altura bobinado	Voice coil length	7.5 mm.
Anchura entrehierro	Air gap height	6 mm.
Desplazamiento máximo	X damage (peak to peak)	20.7 mm.

Technical specifications

Parámetros Thiele-Small**

Fs	Resonant frequency, fs	138 Hz
Re	D.C. Voice coil resistance, Re	6.0 ohms.
Qms	Mechanical Quality Factor, Qms	4.74
Qes	Electrical Quality Factor, Qes	1.16
Qts	Total Quality Factor, Qts	0.93
Vas	Equivalent Air Volume to Cms, Vas	2.47 l
Cms	Mechanical Compliance, Cms	92.2 μm / N
Rms	Mechanical Resistance, Rms	2.69 kg / s
η ₀ (%)	Efficiency, η ₀ (%)	0.54
Sd	Effective Surface Area, Sd	0.014 m ²
Xmax	Maximum Displacement, Xmax	2.5 mm.
Vd	Displacement Volume, Vd	14 cm ³
Le @ 1 kHz	Voice Coil Inductance, Le @ 1 kHz	0.6 mH

Thiele-Small parameters**



Nota: respuesta de frecuencia medida en el eje con el altavoz fijado en panel infinito en el interior de cámara anecoica, 1w @ 1m.

Note: on axis frequency response measured with loudspeaker standing on infinite baffle in anechoic chamber, 1w @ 1m.

12GA50

Especificaciones técnicas

Diámetro nominal	Nominal diameter
Impedancia nominal	Rated impedance
Impedancia mínima	Minimum impedance
Potencia admisible*	Power capacity*
Potencia programa	Program power
Sensibilidad	Sensitivity
Rango de frecuencias	Frequency range
Volumen de caja recom.	Recom. enclosure vol.
Diámetro de bobina	Voice coil diameter
Peso conjunto magnético	Magnetic assembly weight
Factor BL	BL factor
Masa móvil	Moving mass
Altura bobinado	Voice coil length
Anchura entrehierro	Air gap height
Desplazamiento máximo	X damage (peak to peak)

Technical specifications

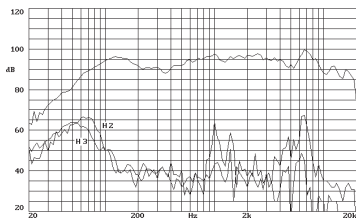
Nominal diameter	300 mm. 12 in.
Rated impedance	8 ohms.
Minimum impedance	6.8 ohms.
Power capacity*	250 w AES
Program power	500 w
Sensitivity	102 dB 2.83v @ 1m @ 2π
Frequency range	70 - 18000 Hz
Recom. enclosure vol.	20 / 70 l 0.7 / 2.45 ft. ³
Voice coil diameter	52 mm. 2 in.
Magnetic assembly weight	2.75 kg. 6.1 lb.
BL factor	10 N / A
Moving mass	0.034 kg.
Voice coil length	9 mm.
Air gap height	7 mm.
X damage (peak to peak)	24 mm.

Parámetros Thiele-Small**

Fs	Resonant frequency, fs
Re	D.C. Voice coil resistance, Re
Qms	Mechanical Quality Factor, Qms
Qes	Electrical Quality Factor, Qes
Qts	Total Quality Factor, Qts
Vas	Equivalent Air Volume to Cms, Vas
Cms	Mechanical Compliance, Cms
Rms	Mechanical Resistance, Rms
η0 (%)	Efficiency, η0 (%)
Sd	Effective Surface Area, Sd
Xmax	Maximum Displacement, Xmax
Vd	Displacement Volume, Vd
Le @ 1 kHz	Voice Coil Inductance, Le @ 1 kHz

Thiele-Small parameters**

Resonant frequency, fs	90 Hz
D.C. Voice coil resistance, Re	6.2 ohms.
Mechanical Quality Factor, Qms	14.8
Electrical Quality Factor, Qes	1.26
Total Quality Factor, Qts	1.16
Equivalent Air Volume to Cms, Vas	34 l
Mechanical Compliance, Cms	87 μm / N
Mechanical Resistance, Rms	1.34 kg / s
Efficiency, η0 (%)	2.1
Effective Surface Area, Sd	0.0530 m ²
Maximum Displacement, Xmax	2 mm.
Displacement Volume, Vd	105 cm ³
Voice Coil Inductance, Le @ 1 kHz	0.6 mH



Nota: respuesta de frecuencia medida en el eje con el altavoz fijado en panel infinito en el interior de cámara anecoica, 1w @ 1m.

Note: on axis frequency response measured with loudspeaker standing on infinite baffle in anechoic chamber, 1w @ 1m.

10AG/N

Especificaciones técnicas

Tipo	Type
Diámetro nominal	Nominal diameter
Impedancia nominal	Rated impedance
Potencia admisible*	Power capacity*
Sensibilidad	Sensitivity
Rango de frecuencias	Frequency range

Technical specifications

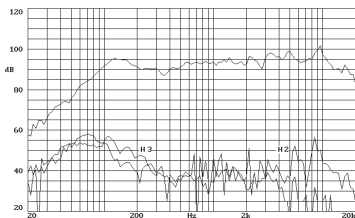
Type	Altavoz de amplia gama / Full range loudspeaker
Nominal diameter	250 mm. 10 in.
Rated impedance	8 ohms.
Power capacity*	100 w RMS (8 ohms.)
Sensitivity	97 dB 1 w @ 1m
Frequency range	60 - 17000 Hz

Características constructivas

Diámetro externo	Overall diameter
Diámetro de calado	Mounting diameter
Profundidad	Depth
Peso neto	Net weight

Mounting information

Overall diameter	258 mm. 10.16 in.
Mounting diameter	230 mm. 9.06 in.
Depth	100 mm. 3.94 in.
Net weight	1.55 Kg. 3.41 lb.



Nota: respuesta de frecuencia medida en el eje con el altavoz fijado en panel infinito en el interior de cámara anecoica, 1w @ 1m.

Note: on axis frequency response measured with loudspeaker standing on infinite baffle in anechoic chamber, 1w @ 1m.

8AG/N

Especificaciones técnicas

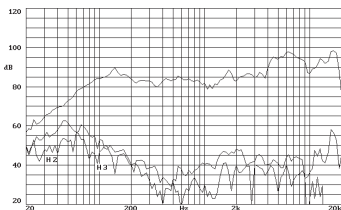
Tipo	Type	Altavoz de amplia gama / Full range loudspeaker
Diámetro nominal	Nominal diameter	200 mm. 8 in.
Impedancia nominal	Rated impedance	8 ohms.
Potencia admisible*	Power capacity*	35 w RMS (8 ohms.)
Sensibilidad	Sensitivity	96 dB 1 w @ 1m
Rango de frecuencias	Frequency range	60 - 18000 Hz

Technical specifications

Características constructivas

Diámetro externo	Overall diameter	205 mm. 8.07 in.
Diámetro de calado	Mounting diameter	180 mm. 7.10 in.
Profundidad	Depth	84 mm. 3.14 in.
Peso neto	Net weight	1.5 Kg. 3.3 lb.

Mounting information



Nota: respuesta de frecuencia medida en el eje con el altavoz fijado en panel infinito en el interior de cámara anecoica, 1w @ 1m.

Note: on axis frequency response measured with loudspeaker standing on infinite baffle in anechoic chamber, 1w @ 1m.

5B30CX

Especificaciones técnicas

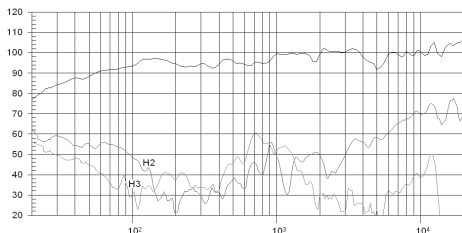
Tipo	Type	Altavoz de amplia gama / Full range loudspeaker
Diámetro nominal	Nominal diameter	125 mm. 5 in.
Impedancia nominal	Rated impedance	8 ohms.
Potencia admisible*	Power capacity*	25 w RMS
Sensibilidad	Sensitivity	86 dB 1 w @ 1m
Rango de frecuencias	Frequency range	55 - 20000 Hz

Technical specifications

Características constructivas

Diámetro externo	Overall diameter	130 mm. 5.07 in.
Diámetro de calado	Mounting diameter	114 mm. 4.44 in.
Profundidad	Depth	61 mm. 2.37 in.
Peso neto	Net weight	0.72 Kg. 1.58 lb.

Mounting information



Nota: respuesta de frecuencia filtrada medida en el eje con el altavoz fijado en panel infinito en el interior de cámara anecoica, 1w @ 1m, con FD2XA.

Note: on axis filtered frequency response measured with loudspeaker standing on infinite baffle in anechoic chamber, 1w @ 1m with FD2XA.

15CXA400Nd

Especificaciones técnicas

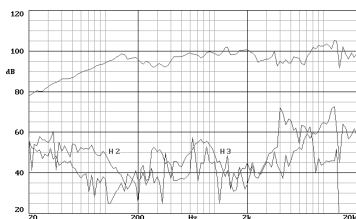
Diámetro nominal	Nominal diameter	381 mm. 15 in.
Impedancia nominal	Rated impedance	8 / 16 ohms.
Impedancia mínima	Minimum impedance	6.6 ohms.
Potencia admisible*	Power capacity*	400 / 90 w AES
Potencia programa	Program power	800 / 180 w
Sensibilidad	Sensitivity	98 dB 2.83 v @ 1m @ 2π
Rango de frecuencias	Frequency range	35 - 20.000 kHz
Recom. HF cruce	Recom. HF crossover	1.5 kHz or higher (12 dB/oct min slope)
Diámetro de bobina	Voice coil diameter	101.6 mm. 4 in.
Peso conjunto magnético	Magnetic assembly weight	4.2 kg. 9.26 lb.
Factor BL	BL factor	19.04 N / A
Masa móvil	Moving mass	0.084 kg.
Altura bobinado	Voice coil length	16 mm.
Anchura entrehierro	Air gap height	9 mm.
Desplazamiento máximo	X damage (peak to peak)	28 mm.

Technical specifications

Parámetros Thiele-Small**

Fs	Resonant frequency, fs	40 Hz
Re	D.C. Voice coil resistance, Re	6.6 ohms.
Qms	Mechanical Quality Factor, Qms	4.37
Qes	Electrical Quality Factor, Qes	0.39
Qts	Total Quality Factor, Qts	0.36
Vas	Equivalent Air Volume to Cms, Vas	196 l
Cms	Mechanical Compliance, Cms	181 μm / N
Rms	Mechanical Resistance, Rms	4.91 kg / s
ηo (%)	Efficiency, ηo (%)	3.3
Sd	Effective Surface Area, Sd	0.088 m ²
Xmax	Maximum Displacement, Xmax	6 mm.
Vd	Displacement Volume, Vd	350 cm ³
Le @ 1 kHz	Voice Coil Inductance, Le @ 1 kHz	0.9 mH

Thiele-Small parameters**



Nota: respuesta de frecuencia filtrada medida en el eje con el altavoz fijado en panel infinito en el interior de cámara anecoica, 1w @ 1m, con FD2XA.

Note: on axis filtered frequency response measured with loudspeaker standing on infinite baffle in anechoic chamber, 1w @ 1m with FD2XA.

15XA38Nd

Especificaciones técnicas

Diámetro nominal	Nominal diameter	380 mm. 15 in.
Impedancia nominal	Rated impedance	8 ohms.
Impedancia mínima	Minimum impedance	7.6 ohms.
Potencia admisible*	Power capacity*	350 w AES
Potencia programa	Program power	700 w
Sensibilidad	Sensitivity	99 dB 2.83v @ 1m @ 2π
Rango de frecuencias	Frequency range	25-3500 Hz
Diámetro de bobina	Voice coil diameter	100 mm. 4 in.

Technical specifications

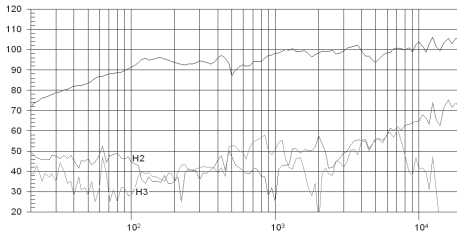
Impedancia nominal	Rated impedance	16 ohms.
Impedancia mínima	Minimum impedance	13.5 ohms. @ 3.5 kHz
Potencia admisible*	Power capacity*	90 w AES above 1 kHz
Rango de frecuencias	Frequency range	0.5 - 20 kHz
Sensibilidad	Sensitivity	105 dB 1w @ 1m
Diámetro de bobina	Voice coil diameter	72.2 mm. 2.87 in.
Densidad de flujo	Flux density	1.6 T
Factor BL	BL factor	15.3 N/A
Dispersión	Dispersion	80° cónico / conical

Parámetros Thiele-Small**

Fs	Resonant frequency, fs	33 Hz
Re	D.C. Voice coil resistance, Re	6.8 ohms.
Qms	Mechanical Quality Factor, Qms	7.50
Qes	Electrical Quality Factor, Qes	0.30
Qts	Total Quality Factor, Qts	0.29
Vas	Equivalent Air Volume to Cms, Vas	359 l
Cms	Mechanical Compliance, Cms	326 μm / N
Rms	Mechanical Resistance, Rms	2 kg / s
ηo (%)	Efficiency, ηo (%)	4
Sd	Effective Surface Area, Sd	0.088 m ²
Xmax	Maximum Displacement, Xmax	4 mm.
Vd	Displacement Volume, Vd	350 cm ³
Le @ 1 kHz	Voice Coil Inductance, Le @ 1 kHz	1.6 mH

Thiele-Small parameters**

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Nota: respuesta de frecuencia filtrada medida en el eje con el altavoz fijado en panel infinito en el interior de cámara anecoica, 1w @ 1m, con FD2XA.

Note: on axis filtered frequency response measured with loudspeaker standing on infinite baffle in anechoic chamber, 1w @ 1m with FD2XA.

12CXA400Nd

Especificaciones técnicas

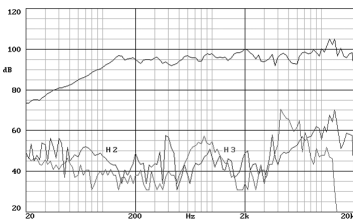
Diámetro nominal	Nominal diameter	300 mm. 12 in.
Impedancia nominal	Rated impedance	8 / 16 ohms.
Impedancia mínima	Minimum impedance	6.8 ohms.
Potencia admisible*	Power capacity*	400 / 90 w AES
Potencia programa	Program power	800 / 180 w
Sensibilidad	Sensitivity	98 dB 2.83 v @ 1m @ 2π
Rango de frecuencias	Frequency range	35 - 20.000 kHz
Recom. HF cruce	Recom. HF crossover	1.5 kHz or higher (12 dB/oct min slope)
Diámetro de bobina	Voice coil diameter	101.6 mm. 4 in.
Peso conjunto magnético	Magnetic assembly weight	4.2 kg. 9.26 lb.
Factor BL	BL factor	18.1 N / A
Masa móvil	Moving mass	0.048 kg.
Altura bobinado	Voice coil length	16 mm.
Anchura entrehierro	Air gap height	9 mm.
Desplazamiento máximo	X damage (peak to peak)	28 mm.

Technical specifications

Parámetros Thiele-Small**

Fs	Resonant frequency, fs	45 Hz
Re	D.C. Voice coil resistance, Re	6.6 ohms.
Qms	Mechanical Quality Factor, Qms	6.24
Qes	Electrical Quality Factor, Qes	0.28
Qts	Total Quality Factor, Qts	0.26
Vas	Equivalent Air Volume to Cms, Vas	102.2 l
Cms	Mechanical Compliance, Cms	260 μm / N
Rms	Mechanical Resistance, Rms	2.19 kg / s
ηo (%)	Efficiency, ηo (%)	3.25
Sd	Effective Surface Area, Sd	0.055 m ²
Xmax	Maximum Displacement, Xmax	6 mm.
Vd	Displacement Volume, Vd	210 cm ³
Le @ 1 kHz	Voice Coil Inductance, Le @ 1 kHz	1 mH

Thiele-Small parameters**



Nota: respuesta de frecuencia filtrada medida en el eje con el altavoz fijado en panel infinito en el interior de cámara anecoica, 1w @ 1m, con FD2XA.

Note: on axis filtered frequency response measured with loudspeaker standing on infinite baffle in anechoic chamber, 1w @ 1m with FD2XA.

12XA30Nd

Especificaciones técnicas

Diámetro nominal	Nominal diameter	300 mm. 12 in.
Impedancia nominal	Rated impedance	8 ohms.
Impedancia mínima	Minimum impedance	7.6 ohms.
Potencia admisible*	Power capacity*	350 w AES
Potencia programa	Program power	700 w
Sensibilidad	Sensitivity	98 dB 2.83v @ 1m @ 2π
Rango de frecuencias	Frequency range	35-4000 Hz
Diámetro de bobina	Voice coil diameter	100 mm. 4 in.

Technical specifications

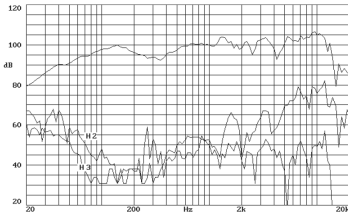
Impedancia nominal	Rated impedance	16 ohms.
Impedancia mínima	Minimum impedance	13.5 ohms. @ 3.5 kHz
Potencia admisible*	Power capacity*	90 w AES above 1 kHz
Rango de frecuencias	Frequency range	0.5 - 20 kHz
Sensibilidad	Sensitivity	105 dB 1w @ 1m
Diámetro de bobina	Voice coil diameter	72.2 mm. 2.87 in.
Densidad de flujo	Flux density	1.6 T
Factor BL	BL factor	15.3 N/A
Dispersión	Dispersion	80° cónico / conical

Parámetros Thiele-Small**

Fs	Resonant frequency, fs	35 Hz
Re	D.C. Voice coil resistance, Re	6.8 ohms.
Qms	Mechanical Quality Factor, Qms	7.98
Qes	Electrical Quality Factor, Qes	0.22
Qts	Total Quality Factor, Qts	0.21
Vas	Equivalent Air Volume to Cms, Vas	172 l
Cms	Mechanical Compliance, Cms	430 μm / N
Rms	Mechanical Resistance, Rms	1.36 kg / s
ηo (%)	Efficiency, ηo (%)	3.3
Sd	Effective Surface Area, Sd	0.0530 m ²
Xmax	Maximum Displacement, Xmax	4 mm.
Vd	Displacement Volume, Vd	210 cm ³
Le @ 1 kHz	Voice Coil Inductance, Le @ 1 kHz	1.3 mH

Thiele-Small parameters**

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Nota: respuesta de frecuencia filtrada medida en el eje con el altavoz fijado en panel infinito en el interior de cámara anecoica, 1w @ 1m, con FD212.

Note: on axis filtered frequency response measured with loudspeaker standing on infinite baffle in anechoic chamber, 1w @ 1m with FD212.

15KX

Especificaciones técnicas

Diámetro nominal	380 mm. 15 in.
Impedancia nominal	8 ohms.
Impedancia mínima	7.3 ohms.
Potencia admisible*	300 w AES
Potencia programa	600 w
Sensibilidad	99 dB 2.83v @ 1m @ 2rt
Rango de frecuencias	25-3000 Hz
Diámetro de bobina	77 mm. 3 in.

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Impedancia nominal	8 ohms.
Impedancia mínima	6.5 ohms. @ 1 kHz
Potencia admisible*	100 w AES
Rango de frecuencias	800 - 17000 Hz
Sensibilidad	105 dB 1w @ 1m
Diámetro de bobina	72.2 mm. 2.8 in.
Densidad de flujo	1.4 T
Factor BL	7.5 N/A
Dispersión	80°

Technical specifications

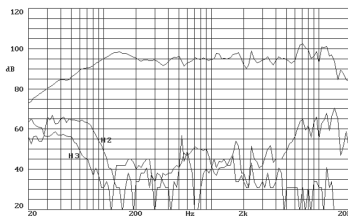
Nominal diameter	380 mm. 15 in.
Rated impedance	8 ohms.
Minimum impedance	7.3 ohms.
Power capacity*	300 w AES
Program power	600 w
Sensitivity	99 dB 2.83v @ 1m @ 2rt
Frequency range	25-3000 Hz
Voice coil diameter	77 mm. 3 in.

Parámetros Thiele-Small**

Fs	45 Hz
Re	5.68 ohms.
Qms	11.4
Qes	0.519
Qts	0.496
Vas	203 l
Cms	188.4 μm / N
Rms	1.69 kg / s
η ₀ (%)	3.18
Sd	0.088 m ²
Xmax	3.5 mm.
Vd	300 cm. ³
Le @ 1 kHz	0.66 mH

Thiele-Small parameters**

Resonant frequency, fs	45 Hz
D.C. Voice coil resistance, Re	5.68 ohms.
Mechanical Quality Factor, Qms	11.4
Electrical Quality Factor, Qes	0.519
Total Quality Factor, Qts	0.496
Equivalent Air Volume to Cms, Vas	203 l
Mechanical Compliance, Cms	188.4 μm / N
Mechanical Resistance, Rms	1.69 kg / s
Efficiency, η ₀ (%)	3.18
Effective Surface Area, Sd	0.088 m ²
Maximum Displacement, Xmax	3.5 mm.
Displacement Volume, Vd	300 cm. ³
Voice Coil Inductance, Le @ 1 kHz	0.66 mH



Nota: respuesta de frecuencia filtrada medida en el eje con el altavoz fijado en panel infinito en el interior de cámara anecoica, 1w @ 1m, con FD212.

Note: on axis filtered frequency response measured with loudspeaker standing on infinite baffle in anechoic chamber, 1w @ 1m with FD212.

12KX

Especificaciones técnicas

Diámetro nominal	300 mm. 12 in.
Impedancia nominal	8 ohms.
Impedancia mínima	7.1 ohms.
Potencia admisible*	300 w AES
Potencia programa	600 w
Sensibilidad	98 dB 2.83v @ 1m @ 2rt
Rango de frecuencias	35-3000 Hz
Diámetro de bobina	77 mm. 3 in.

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Impedancia nominal	8 ohms.
Impedancia mínima	6.5 ohms. @ 1 kHz
Potencia admisible*	100 w AES
Rango de frecuencias	800 - 17000 Hz
Sensibilidad	105 dB 1w @ 1m
Diámetro de bobina	72.2 mm. 2.8 in.
Densidad de flujo	1.4 T
Factor BL	7.5 N/A
Dispersión	90°

Technical specifications

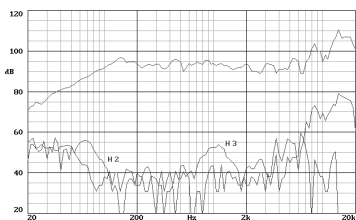
Nominal diameter	300 mm. 12 in.
Rated impedance	8 ohms.
Minimum impedance	7.1 ohms.
Power capacity*	300 w AES
Program power	600 w
Sensitivity	98 dB 2.83v @ 1m @ 2rt
Frequency range	35-3000 Hz
Voice coil diameter	77 mm. 3 in.

Parámetros Thiele-Small**

Fs	45 Hz
Re	5.6 ohms.
Qms	10.4
Qes	0.380
Qts	0.370
Vas	70 l
Cms	186 μm / N
Rms	1.49 kg / s
η ₀ (%)	2.9
Sd	0.055 m ²
Xmax	3.5 mm.
Vd	200 cm. ³
Le @ 1 kHz	1 mH

Thiele-Small parameters**

Resonant frequency, fs	45 Hz
D.C. Voice coil resistance, Re	5.6 ohms.
Mechanical Quality Factor, Qms	10.4
Electrical Quality Factor, Qes	0.380
Total Quality Factor, Qts	0.370
Equivalent Air Volume to Cms, Vas	70 l
Mechanical Compliance, Cms	186 μm / N
Mechanical Resistance, Rms	1.49 kg / s
Efficiency, η ₀ (%)	2.9
Effective Surface Area, Sd	0.055 m ²
Maximum Displacement, Xmax	3.5 mm.
Displacement Volume, Vd	200 cm. ³
Voice Coil Inductance, Le @ 1 kHz	1 mH



Nota: respuesta de frecuencia filtrada medida en el eje con el altavoz fijado en panel infinito en el interior de cámara anecoica, 1w @ 1m, con FD2XC2.

Note: on axis filtered frequency response measured with loudspeaker standing on infinite baffle in anechoic chamber, 1w @ 1m with FD2XC2.

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10XC25

Especificaciones técnicas

Diámetro nominal	Nominal diameter	250 mm. 10 in.
Impedancia nominal	Rated impedance	8 ohms.
Impedancia mínima	Minimum impedance	7.3 ohms.
Potencia admisible*	Power capacity*	250 w AES
Potencia programa	Program power	500 w
Sensibilidad	Sensitivity	98 dB 2.83v @ 1m @ 2rt
Rango de frecuencias	Frequency range	55-8000 Hz
Diámetro de bobina	Voice coil diameter	62.4 mm. 2.5 in.

Impedancia nominal	Rated impedance	16 ohms.
Impedancia mínima	Minimum impedance	10.9 ohms. @ 4.5 kHz
Potencia admisible*	Power capacity*	40 w AES por encima / above 1 kHz
Rango de frecuencias	Frequency range	0.7 - 20 kHz
Sensibilidad	Sensitivity	105 dB 1w @ 1m
Diámetro de bobina	Voice coil diameter	44.4 mm. 1.75 in.
Densidad de flujo	Flux density	1.8 T
Factor BL	BL factor	10.5 N/A
Dispersión	Dispersion	90° cónico / conical

Parámetros Thiele-Small**

Fs	Resonant frequency, fs	53 Hz
Re	D.C. Voice coil resistance, Re	6.3 ohms.
Qms	Mechanical Quality Factor, Qms	10
Qes	Electrical Quality Factor, Qes	0.38
Qts	Total Quality Factor, Qts	0.36
Vas	Equivalent Air Volume to Cms, Vas	66 l
Cms	Mechanical Compliance, Cms	322 µm / N
Rms	Mechanical Resistance, Rms	0.93 kg / s
η0 (%)	Efficiency, η0 (%)	2.5
Sd	Effective Surface Area, Sd	0.0380 m²
Xmax	Maximum Displacement, Xmax	5 mm.
Vd	Displacement Volume, Vd	190 cm³
Le @ 1 kHz	Voice Coil Inductance, Le @ 1 kHz	1.5 mH

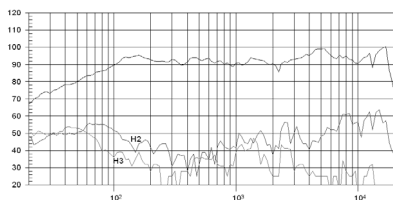
Technical specifications

Nominal diameter	250 mm. 10 in.
Rated impedance	8 ohms.
Minimum impedance	7.3 ohms.
Power capacity*	250 w AES
Program power	500 w
Sensitivity	98 dB 2.83v @ 1m @ 2rt
Frequency range	55-8000 Hz
Voice coil diameter	62.4 mm. 2.5 in.

Rated impedance	16 ohms.
Minimum impedance	10.9 ohms. @ 4.5 kHz
Power capacity*	40 w AES por encima / above 1 kHz
Frequency range	0.7 - 20 kHz
Sensitivity	105 dB 1w @ 1m
Voice coil diameter	44.4 mm. 1.75 in.
Flux density	1.8 T
BL factor	10.5 N/A
Dispersion	90° cónico / conical

Thiele-Small parameters**

Resonant frequency, fs	53 Hz
D.C. Voice coil resistance, Re	6.3 ohms.
Mechanical Quality Factor, Qms	10
Electrical Quality Factor, Qes	0.38
Total Quality Factor, Qts	0.36
Equivalent Air Volume to Cms, Vas	66 l
Mechanical Compliance, Cms	322 µm / N
Mechanical Resistance, Rms	0.93 kg / s
Efficiency, η0 (%)	2.5
Effective Surface Area, Sd	0.0380 m²
Maximum Displacement, Xmax	5 mm.
Displacement Volume, Vd	190 cm³
Voice Coil Inductance, Le @ 1 kHz	1.5 mH



Nota: respuesta de frecuencia filtrada medida en el eje con el altavoz fijado en panel infinito en el interior de cámara anecoica, 1w @ 1m, con FD2CX.

Note: on axis filtered frequency response measured with loudspeaker standing on infinite baffle in anechoic chamber, 1w @ 1m with FD2CX.

8CX300Nd

Especificaciones técnicas

Diámetro nominal	Nominal diameter	200 mm. 8 in.
Impedancia nominal	Rated impedance	8 ohms.
Impedancia mínima	Minimum impedance	6.1 ohms.
Potencia admisible*	Power capacity*	250 / 50 w AES
Potencia programa	Program power	500 / 100 w
Sensibilidad	Sensitivity	96 dB / 102 dB 1 W @ 1m @ 2rt
Rango de frecuencias	Frequency range	40 - 20000 kHz
Recom. HF cruce	Recom. HF crossover	1.5 kHz or higher (12 dB/oct min slope)
Diámetro de bobina	Voice coil diameter	63.5 mm. 2.5 in.
Peso conjunto magnético	Magnetic assembly weight	1.9 kg. 4.18 lb.
Factor BL	BL factor	9.85 N / A
Masa móvil	Moving mass	0.014 kg.
Altura bobinado	Voice coil length	15 mm.
Anchura entrehierro	Air gap height	7 mm.
Desplazamiento máximo	X damage (peak to peak)	24 mm.

Parámetros Thiele-Small**

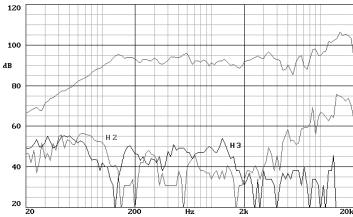
Fs	Resonant frequency, fs	57 Hz
Re	D.C. Voice coil resistance, Re	5 ohms.
Qms	Mechanical Quality Factor, Qms	9.25
Qes	Electrical Quality Factor, Qes	0.27
Qts	Total Quality Factor, Qts	0.26
Vas	Equivalent Air Volume to Cms, Vas	35 l
Cms	Mechanical Compliance, Cms	517 µm / N
Rms	Mechanical Resistance, Rms	0.57 kg / s
η0 (%)	Efficiency, η0 (%)	2.43
Sd	Effective Surface Area, Sd	0.0220 m²
Xmax	Maximum Displacement, Xmax	6 mm.
Vd	Displacement Volume, Vd	132 cm³
Le @ 1 kHz	Voice Coil Inductance, Le @ 1 kHz	0.19 mH

Technical specifications

Nominal diameter	200 mm. 8 in.
Rated impedance	8 ohms.
Minimum impedance	6.1 ohms.
Power capacity*	250 / 50 w AES
Program power	500 / 100 w
Sensitivity	96 dB / 102 dB 1 W @ 1m @ 2rt
Frequency range	40 - 20000 kHz
Recom. HF crossover	1.5 kHz or higher (12 dB/oct min slope)
Voice coil diameter	63.5 mm. 2.5 in.
Magnetic assembly weight	1.9 kg. 4.18 lb.
BL factor	9.85 N / A
Moving mass	0.014 kg.
Voice coil length	15 mm.
Air gap height	7 mm.
X damage (peak to peak)	24 mm.

Thiele-Small parameters**

Resonant frequency, fs	57 Hz
D.C. Voice coil resistance, Re	5 ohms.
Mechanical Quality Factor, Qms	9.25
Electrical Quality Factor, Qes	0.27
Total Quality Factor, Qts	0.26
Equivalent Air Volume to Cms, Vas	35 l
Mechanical Compliance, Cms	517 µm / N
Mechanical Resistance, Rms	0.57 kg / s
Efficiency, η0 (%)	2.43
Effective Surface Area, Sd	0.0220 m²
Maximum Displacement, Xmax	6 mm.
Displacement Volume, Vd	132 cm³
Voice Coil Inductance, Le @ 1 kHz	0.19 mH



Nota: respuesta de frecuencia filtrada medida en el eje con el altavoz fijado en panel infinito en el interior de cámara anecoica, 1w @ 1m, con FD2XC1.

Note: on axis filtered frequency response measured with loudspeaker standing on infinite baffle in anechoic chamber, 1w @ 1m with FD2XC1.

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8XC20

Especificaciones técnicas

Diámetro nominal	Nominal diameter	200 mm. 8 in.
Impedancia nominal	Rated impedance	8 ohms.
Impedancia mínima	Minimum impedance	7 ohms.
Potencia admisible*	Power capacity*	170 w AES
Potencia programa	Program power	340 w
Sensibilidad	Sensitivity	95 dB 2.83v @ 1m @ 2rt
Rango de frecuencias	Frequency range	65-7000 Hz
Diámetro de bobina	Voice coil diameter	51.7 mm. 2 in.

Impedancia nominal	Rated impedance	16 ohms.
Impedancia mínima	Minimum impedance	10.9 ohms. @ 4.5 kHz
Potencia admisible*	Power capacity*	40 w AES por encima / above 1.5 kHz
Rango de frecuencias	Frequency range	0.7 - 20 kHz
Sensibilidad	Sensitivity	105 dB 1w @ 1m
Diámetro de bobina	Voice coil diameter	44.4 mm. 1.75 in.
Densidad de flujo	Flux density	1.8 T
Factor BL	BL factor	10.5 N/A
Dispersión	Dispersion	90° cónico / conical

Parámetros Thiele-Small**

Fs	Resonant frequency, fs	75 Hz
Re	D.C. Voice coil resistance, Re	6.3 ohms.
Qms	Mechanical Quality Factor, Qms	7.4
Qes	Electrical Quality Factor, Qes	0.42
Qts	Total Quality Factor, Qts	0.40
Vas	Equivalent Air Volume to Cms, Vas	17 l
Cms	Mechanical Compliance, Cms	250 µm / N
Rms	Mechanical Resistance, Rms	1.1 kg / s
η0 (%)	Efficiency, η0 (%)	1.7
Sd	Effective Surface Area, Sd	0.0220 m²
Xmax	Maximum Displacement, Xmax	5 mm.
Vd	Displacement Volume, Vd	111 cm³
Le @ 1 kHz	Voice Coil Inductance, Le @ 1 kHz	1.2 mH

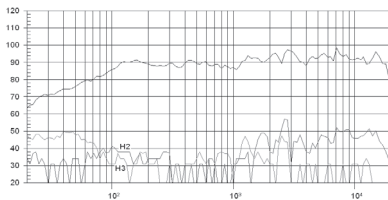
Technical specifications

Nominal diameter	200 mm. 8 in.
Rated impedance	8 ohms.
Minimum impedance	7 ohms.
Power capacity*	170 w AES
Program power	340 w
Sensitivity	95 dB 2.83v @ 1m @ 2rt
Frequency range	65-7000 Hz
Voice coil diameter	51.7 mm. 2 in.

Rated impedance	16 ohms.
Minimum impedance	10.9 ohms. @ 4.5 kHz
Power capacity*	40 w AES por encima / above 1.5 kHz
Frequency range	0.7 - 20 kHz
Sensitivity	105 dB 1w @ 1m
Voice coil diameter	44.4 mm. 1.75 in.
Flux density	1.8 T
BL factor	10.5 N/A
Dispersion	90° cónico / conical

Thiele-Small parameters**

Resonant frequency, fs	75 Hz
D.C. Voice coil resistance, Re	6.3 ohms.
Mechanical Quality Factor, Qms	7.4
Electrical Quality Factor, Qes	0.42
Total Quality Factor, Qts	0.40
Equivalent Air Volume to Cms, Vas	17 l
Mechanical Compliance, Cms	250 µm / N
Mechanical Resistance, Rms	1.1 kg / s
Efficiency, η0 (%)	1.7
Effective Surface Area, Sd	0.0220 m²
Maximum Displacement, Xmax	5 mm.
Displacement Volume, Vd	111 cm³
Voice Coil Inductance, Le @ 1 kHz	1.2 mH



Nota: respuesta de frecuencia filtrada medida en el eje con el altavoz fijado en panel infinito en el interior de cámara anecoica, 1w @ 1m, con FD2CX.

Note: on axis filtered frequency response measured with loudspeaker standing on infinite baffle in anechoic chamber, 1w @ 1m with FD2CX.

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6CX200Nd

Especificaciones técnicas

Diámetro nominal	Nominal diameter	165 mm. 6.5 in.
Impedancia nominal	Rated impedance	8 ohms
Impedancia mínima	Minimum impedance	5.9 ohms
Potencia admisible*	Power capacity*	200 w AES
Potencia programa	Program power	400 / 80 w
Sensibilidad	Sensitivity	92 dB 2.83v @ 1m @ 2rt
Rango de frecuencias	Frequency range	60-20000 Hz
Diámetro de bobina	Voice coil diameter	51.7 mm. 2 in.

Impedancia nominal	Rated impedance	8 ohms.
Impedancia mínima	Minimum impedance	5.9 ohms
Potencia admisible*	Power capacity*	40 w AES
Rango de frecuencias	Frequency range	60-20000 Hz
Sensibilidad	Sensitivity	102 dB 2.83v @ 1m @ 2rt
Diámetro de bobina	Voice coil diameter	51.7 mm. 2 in.
Factor BL	BL factor	10.1 N/A

Parámetros Thiele-Small**

Fs	Resonant frequency, fs	65 Hz
Re	D.C. Voice coil resistance, Re	5.3 ohms.
Qms	Mechanical Quality Factor, Qms	3.58
Qes	Electrical Quality Factor, Qes	0.34
Qts	Total Quality Factor, Qts	0.30
Vas	Equivalent Air Volume to Cms, Vas	8.25 l
Cms	Mechanical Compliance, Cms	324 µm / N
Rms	Mechanical Resistance, Rms	2.01 kg / s
η0 (%)	Efficiency, η0 (%)	0.74
Sd	Effective Surface Area, Sd	0.0135 m²
Xmax	Maximum Displacement, Xmax	5.1 mm.
Vd	Displacement Volume, Vd	68.85 cm³
Le @ 1 kHz	Voice Coil Inductance, Le @ 1 kHz	0.6 mH

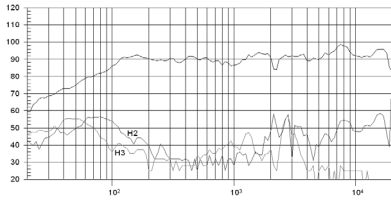
Technical specifications

Nominal diameter	165 mm. 6.5 in.
Rated impedance	8 ohms
Minimum impedance	5.9 ohms
Power capacity*	200 w AES
Program power	400 / 80 w
Sensitivity	92 dB 2.83v @ 1m @ 2rt
Frequency range	60-20000 Hz
Voice coil diameter	51.7 mm. 2 in.

Rated impedance	8 ohms.
Minimum impedance	5.9 ohms
Power capacity*	40 w AES
Frequency range	60-20000 Hz
Sensitivity	102 dB 2.83v @ 1m @ 2rt
Voice coil diameter	51.7 mm. 2 in.
BL factor	10.1 N/A

Thiele-Small parameters**

Resonant frequency, fs	65 Hz
D.C. Voice coil resistance, Re	5.3 ohms.
Mechanical Quality Factor, Qms	3.58
Electrical Quality Factor, Qes	0.34
Total Quality Factor, Qts	0.30
Equivalent Air Volume to Cms, Vas	8.25 l
Mechanical Compliance, Cms	324 µm / N
Mechanical Resistance, Rms	2.01 kg / s
Efficiency, η0 (%)	0.74
Effective Surface Area, Sd	0.0135 m²
Maximum Displacement, Xmax	5.1 mm.
Displacement Volume, Vd	68.85 cm³
Voice Coil Inductance, Le @ 1 kHz	0.6 mH



Nota: respuesta de frecuencia filtrada medida en el eje con el altavoz fijado en panel infinito en el interior de cámara anecoica, 1w @ 1m, con FD2CX.

Note: on axis filtered frequency response measured with loudspeaker standing on infinite baffle in anechoic chamber, 1w @ 1m with FD2CX.

5CX200Nd

Especificaciones técnicas

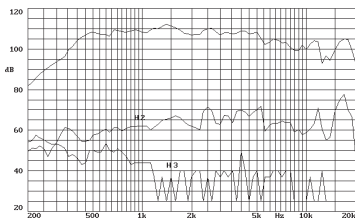
Diámetro nominal	Nominal diameter	125 mm. 5 in.
Impedancia nominal	Rated impedance	8 ohms.
Impedancia mínima	Minimum impedance	6.2 ohms.
Potencia admisible*	Power capacity*	150 / 40 w AES
Potencia programa	Program power	300 / 80 w
Sensibilidad	Sensitivity	92.5 dB / 102 dB 1 W @ 1m @ 2π
Rango de frecuencias	Frequency range	60 - 20000 kHz
Volumen de caja recom.	Recom. enclosure vol.	10 / 20 l 0.35 / 0.70 ft. ³
Diámetro de bobina	Voice coil diameter	38.5 mm. 1.5 in.
Peso conjunto magnético	Magnetic assembly weight	1.2 kg. 2.64 lb.
Factor BL	BL factor	8.5 N / A
Masa móvil	Moving mass	0.008 kg.
Altura bobinado	Voice coil length	12 mm.
Anchura entrehierro	Air gap height	6 mm.
Desplazamiento máximo	X damage (peak to peak)	16 mm.

Technical specifications

Parámetros Thiele-Small**

Fs	Resonant frequency, fs	89 Hz
Re	D.C. Voice coil resistance, Re	5 ohms.
Qms	Mechanical Quality Factor, Qms	7.95
Qes	Electrical Quality Factor, Qes	0.33
Qts	Total Quality Factor, Qts	0.31
Vas	Equivalent Air Volume to Cms, Vas	5.11 l
Cms	Mechanical Compliance, Cms	405 μm / N
Rms	Mechanical Resistance, Rms	0.54 kg / s
ηo (%)	Efficiency, ηo (%)	1.06
Sd	Effective Surface Area, Sd	0.0095 m ²
Xmax	Maximum Displacement, Xmax	5 mm.
Vd	Displacement Volume, Vd	48.1 cm ³
Le @ 1 kHz	Voice Coil Inductance, Le @ 1 kHz	0.09 mH

Thiele-Small parameters**



Nota: respuesta de frecuencia medida en el eje acoplado a una bocina TD 400 en el interior de cámara anecoica, 1w @ 1m.

Note: on axis frequency response measured coupled to TD400 horn in anechoic chamber, 1w @ 1m.

CP850Nd

Especificaciones técnicas

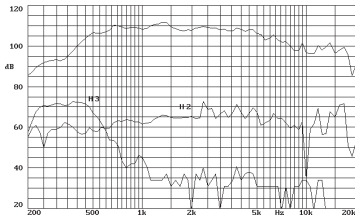
Diámetro de garganta	Throat diameter	49 mm. 2 in.
Impedancia nominal	Rated impedance	8 ohms.
Impedancia mínima	Minimum impedance	7.5 ohms. @ 2 kHz
Resistencia eléctrica	D.C. Resistance	5.6 ohms.
Potencia admisible*	Power capacity*	65 w AES por encima / above 0.5 kHz 130 w AES por encima / above 1.5 kHz
Potencia programa	Program Power	130 w por encima / above 0.5 kHz 260 w por encima / above 1.5 kHz
Sensibilidad**	Sensitivity**	112 dB 1 w @ 1 m acoplado a bocina / coupled to TD-460 horn
Rango de frecuencias	Frequency range	0.5 - 20 kHz
Frecuencia de corte recom.	Recom. crossover	500 Hz o mayor / or higher (12 dB/oct. min.)
Diámetro de bobina	Voice coil diameter	100 mm. 4 in.
Peso conjunto magnético	Magnetic assembly weight	3.6 kg. 7.9 lb.
Densidad de flujo	Flux density	2 T
Factor BL	BL factor	16.5 N/A
Material de la membrana	Diaphragm material	Titanio / Titanium

Technical specifications

Características constructivas

Diámetro externo	Overall diameter	165 mm. 6.5 in.
Profundidad	Depth	114 mm. 4.5 in.
Montaje	Mounting	Four M6 threaded holes, 90° apart on 101.6 mm. (4 in.) diameter circle. Mounting hardware is supplied.
4 agujeros roscados de M6 a 90°, con un diámetro entre ejes de 101.6 mm. (4 in.)		
Elementos de montaje y sujeción incluidos.		
Peso neto	Net weight	4.4 kg. 9.7 lb.
Peso total	Shipping weight	5 kg. 11 lb.

Mounting information



Nota: respuesta de frecuencia medida en el eje acoplado a una bocina TD 400 en el interior de cámara anecoica, 1w @ 1m.

Note: on axis frequency response measured coupled to TD400 horn in anechoic chamber, 1w @ 1m.

CP800/Ti

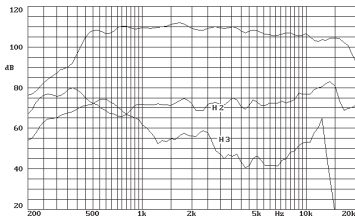
Especificaciones técnicas

Diámetro de garganta	Throat diameter	49 mm. 2 in.
Impedancia nominal	Rated impedance	8 ohms.
Impedancia mínima	Minimum impedance	7.5 ohms. @ 1.5 kHz
Resistencia eléctrica	D.C. Resistance	5.6 ohms.
Potencia admisible*	Power capacity*	65 w AES por encima / above 0.5 kHz 130 w AES por encima / above 1.5 kHz
Potencia programa	Program Power	130 w por encima / above 0.5 kHz 260 w por encima / above 1.5 kHz
Sensibilidad**	Sensitivity**	112 dB 1 w @ 1 m acoplado a bocina / coupled to TD460/N horn
Rango de frecuencias	Frequency range	0.5 - 20 kHz
Frecuencia de corte recom.	Recom. crossover	500 Hz o mayor / or higher, (12 dB/oct. min.)
Diámetro de bobina	Voice coil diameter	100 mm. 4 in.
Peso conjunto magnético	Magnetic assembly weight	8.9 kg. 19.6 lb.
Densidad de flujo	Flux density	1.75 T
Factor BL	BL factor	15 N/A
Material de la membrana	Diaphragm material	Titanio / Titanium

Características constructivas

Diámetro externo	Overall diameter	228 mm. 9 in.
Profundidad	Depth	117 mm. 4.6 in.
Montaje	Mounting	4 agujeros roscados de M6 a 90°, con un diámetro entre ejes de 101.6 mm. (4 in.)
Elementos de montaje y sujeción incluidos.	Mounting hardware is supplied.	
Peso neto	Net weight	10.3 kg. 22.7 lb.
Peso total	Shipping weight	11 kg. 22.4 lb.

Mounting information



Nota: respuesta de frecuencia medida en el eje acoplado a una bocina TD 400 en el interior de cámara anecoica, 1w @ 1m.

Note: on axis frequency response measured coupled to TD400 horn in anechoic chamber, 1w @ 1m.

CP750Nd

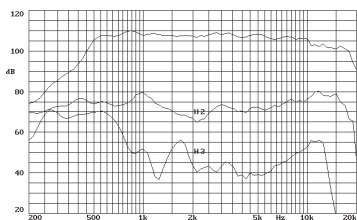
Especificaciones técnicas

Diámetro de garganta	Throat diameter	49 mm. 2 in.
Impedancia nominal	Rated impedance	8 ohms.
Impedancia mínima	Minimum impedance	7.4 ohms. @ 3.5 kHz
Resistencia eléctrica	D.C. Resistance	5.5 ohms.
Potencia admisible*	Power capacity*	60 w AES por encima / above 0.8 kHz 80 w AES por encima / above 1.5 kHz
Potencia programa	Program Power	120 w AES por encima / above 0.8 kHz 160 w AES por encima / above 1.5 kHz
Sensibilidad**	Sensitivity**	112 dB 1 w @ 1 m acoplado a bocina / coupled to TD-400N horn
Rango de frecuencias	Frequency range	0.6 - 20 kHz
Frecuencia de corte recom.	Recom. crossover	800 Hz o mayor / or higher (12 dB/oct. min.)
Diámetro de bobina	Voice coil diameter	72.2 mm. 2.87 in.
Peso conjunto magnético	Magnetic assembly weight	3.1 kg. 6.82 lb.
Densidad de flujo	Flux density	2.2 T
Factor BL	BL factor	11.5 N/A
Material de la membrana	Diaphragm material	Titanium dome with polyester surround
Cúpula de titanio con suspensión de poliéster		

Características constructivas

Diámetro externo	Overall diameter	145 mm. 5.70 in.
Profundidad	Depth	89 mm. 3.5 in.
Montaje	Mounting	4 agujeros roscados de M6 a 90°, con un diámetro entre ejes de 101.6 mm. (4 in.)
Elementos de montaje y sujeción incluidos.	Mounting hardware is supplied.	
Peso neto	Net weight	3.5 kg. 7.7 lb.
Peso total	Shipping weight	3.75 kg. 8.25 lb.

Mounting information



Nota: respuesta de frecuencia medida en el eje acoplado a una bocina TD400 en el interior de cámara anecoica, 1w @ 1m.

Note: on axis frequency response measured coupled to TD400 horn in anechoic chamber, 1w @ 1m.

CP750/Ti

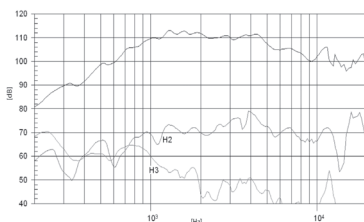
Especificaciones técnicas

Diámetro de garganta	Throat diameter	49 mm. 2 in.
Impedancia nominal	Rated impedance	8 ohms.
Impedancia mínima	Minimum impedance	7.4 ohms. @ 3.5 kHz
Resistencia eléctrica	D.C. Resistance	5.5 ohms.
Potencia admisible*	Power capacity*	70 w AES por encima / above 0,8 kHz 90 w AES por encima / above 1,5 kHz
Potencia programa	Program Power	140 w AES por encima / above 0,8 kHz 180 w AES por encima / above 1,5 kHz
Sensibilidad**	Sensitivity**	110 dB 1 w @ 1 m acoplado a bocina / coupled to TD-400N horn
Rango de frecuencias	Frequency range	0,6 - 20 kHz
Frecuencia de corte recom.	Recom. crossover	800 Hz o mayor / or higher, (12 dB/oct. min.)
Diámetro de bobina	Voice coil diameter	72.2 mm. 2.87 in.
Peso conjunto magnético	Magnetic assembly weight	6.5 kg. 14.33 lb.
Densidad de flujo	Flux density	1.875 T
Factor BL	BL factor	10 N/A
Material de la membrana	Diaphragm material	Titanium dome with polyester surround
Cúpula de titanio con suspensión de poliéster		

Características constructivas

Diámetro externo	Overall diameter	192 mm. 7.56 in.
Profundidad	Depth	88 mm. 3.46 in.
Montaje	Mounting	4 agujeros roscados de M6 a 90°, con un diámetro entre ejes de 101.6 mm. (4 in.) Elementos de montaje y sujeción incluidos. Mounting hardware is supplied.
Peso neto	Net weight	7.05 kg. 15.51 lb.
Peso total	Shipping weight	7.3 kg. 16.06 lb.

Mounting information



Nota: respuesta de frecuencia medida en el eje acoplado a una bocina TD365 en el interior de cámara anecoica, 2,83 v @ 1m.

Note: on axis frequency response measured coupled to TD365 horn in anechoic chamber, 2,83 v @ 1m.

CP855Nd

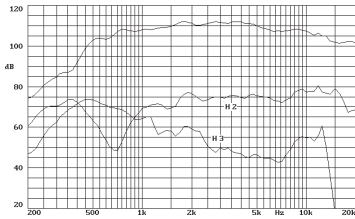
Especificaciones técnicas

Diámetro de garganta	Throat diameter	36 mm. 1.4 in.
Impedancia nominal	Rated impedance	8 ohms.
Resistencia eléctrica	D.C. Resistance	5.6 ohms.
Potencia admisible*	Power capacity*	100 w AES por encima / above 500 Hz 150 w AES por encima / above 1,2 kHz
Potencia programa	Program Power	200 w AES por encima / above 500 Hz 300 w AES por encima / above 1,2 kHz
Sensibilidad**	Sensitivity**	112 dB 2.83 w @ 1 m acoplado a bocina / coupled to TD-365 horn
Rango de frecuencias	Frequency range	0,5 - 20 kHz
Frecuencia de corte recom.	Recom. crossover	0.5 kHz o mayor / or higher, (12 dB/oct. min.)
Diámetro de bobina	Voice coil diameter	100 mm. 4 in.
Peso conjunto magnético	Magnetic assembly weight	3.6 kg. 7.9 lb.
Densidad de flujo	Flux density	2 T
Factor BL	BL factor	16.5 N/A

Características constructivas

Diámetro externo	Overall diameter	160 mm. 6.29 in.
Profundidad	Depth	80 mm. 3.14 in.
Montaje	Mounting	4 agujeros roscados de M6 a 90°, con un diámetro entre ejes de 101.6 mm. (4 in.) Elementos de montaje y sujeción incluidos. Mounting hardware is supplied.
Peso neto	Net weight	4.3 kg. 8.81 lb.
Peso total	Shipping weight	4.8 kg. 10.57 lb.

Mounting information



Nota: respuesta de frecuencia medida en el eje acoplado a una bocina TD 565 en el interior de cámara anecoica, 1w @ 1m.

Note: on axis frequency response measured coupled to TD565 horn in anechoic chamber, 1w @ 1m.

CP755Nd

Especificaciones técnicas

Diámetro de garganta	36 mm. 1.4 in.
Impedancia nominal	8 ohms.
Impedancia mínima	7.3 ohms. @ 3.5 kHz
Resistencia eléctrica	5.5 ohms.
Potencia admisible*	60 w AES por encima / above 0.8 kHz 80 w AES por encima / above 1.5 kHz

Potencia programa

Sensibilidad**

Rango de frecuencias

Frecuencia de corte recom.

Diámetro de bobina

Peso conjunto magnético

Densidad de flujo

Factor BL

Material de la membrana

Cúpula de titanio con suspensión de poliéster

Technical specifications

Throat diameter	36 mm. 1.4 in.
Rated impedance	8 ohms.
Minimum impedance	7.3 ohms. @ 3.5 kHz
D.C. Resistance	5.5 ohms.
Power capacity*	60 w AES por encima / above 0.8 kHz 80 w AES por encima / above 1.5 kHz

Program Power

Sensitivity**

Frequency range

Recom. crossover

Voice coil diameter

Magnetic assembly weight

Flux density

BL factor

Diaphragm material

Titanium dome with polyester surround

Características constructivas

Diámetro externo

Profundidad

Montaje

4 agujeros roscados de M6 a 90°, con un diámetro entre ejes de 101.6 mm. (4 in.) Elementos de montaje y sujeción incluidos.

Peso neto

Peso total

Mounting information

Overall diameter

Depth

Mounting

Four M6 threaded holes, 90° apart on 101.6 mm. (4 in.) diameter circle. Mounting hardware is supplied.

Net weight

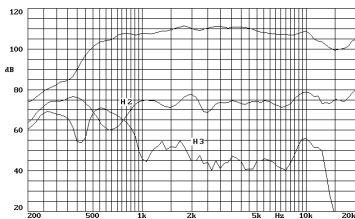
Shipping weight

145 mm. 5.70 in.

65 mm. 2.56 in.

2.96 kg. 6.51 lb.

3.21 kg. 7.06 lb.



Nota: respuesta de frecuencia medida en el eje acoplado a una bocina TD 565 en el interior de cámara anecoica, 1w @ 1m.

Note: on axis frequency response measured coupled to TD565 horn in anechoic chamber, 1w @ 1m.

CP755Nd/Al

Especificaciones técnicas

Diámetro de garganta	36 mm. 1.4 in.
Impedancia nominal	8 ohms.
Impedancia mínima	7.3 ohms. @ 3.5 kHz
Resistencia eléctrica	5.5 ohms.
Potencia admisible*	60 w AES por encima / above 0.8 kHz 80 w AES por encima / above 1.5 kHz

Potencia programa

Sensibilidad**

Rango de frecuencias

Frecuencia de corte recom.

Diámetro de bobina

Peso conjunto magnético

Densidad de flujo

Factor BL

Material de la membrana

Cúpula de aluminio con suspensión de poliéster

Technical specifications

Throat diameter	36 mm. 1.4 in.
Rated impedance	8 ohms.
Minimum impedance	7.3 ohms. @ 3.5 kHz
D.C. Resistance	5.5 ohms.
Power capacity*	60 w AES por encima / above 0.8 kHz 80 w AES por encima / above 1.5 kHz

Program Power

Sensitivity**

Frequency range

Recom. crossover

Voice coil diameter

Magnetic assembly weight

Flux density

BL factor

Diaphragm material

Aluminium dome with polyester surround

Características constructivas

Diámetro externo

Profundidad

Montaje

4 agujeros roscados de M6 a 90°, con un diámetro entre ejes de 101.6 mm. (4 in.) Elementos de montaje y sujeción incluidos.

Peso neto

Peso total

Mounting information

Overall diameter

Depth

Mounting

Four M6 threaded holes, 90° apart on 101.6 mm. (4 in.) diameter circle. Mounting hardware is supplied.

Net weight

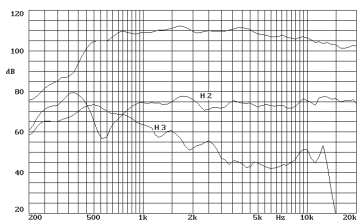
Shipping weight

145 mm. 5.70 in.

65 mm. 2.56 in.

2.96 kg. 6.51 lb.

3.21 kg. 7.06 lb.



Nota: respuesta de frecuencia medida en el eje acoplado a una bocina TD 565 en el interior de cámara anecoica, 1w @ 1m.

Note: on axis frequency response measured coupled to TD565 horn in anechoic chamber, 1w @ 1m.

CP755/Ti

Especificaciones técnicas

Diámetro de garganta	36 mm. 1.4 in.
Impedancia nominal	8 ohms.
Impedancia mínima	7.3 ohms. @ 3.5 kHz
Resistencia eléctrica	5.5 ohms.
Potencia admisible*	70 w AES por encima / above 0,8 kHz 90 w AES por encima / above 1,5 kHz

Potencia programa

Sensibilidad**

Rango de frecuencias	0.6 - 20 kHz
Frecuencia de corte recom.	800 Hz o mayor / or higher, (12 dB/oct. min.)
Diámetro de bobina	72.2 mm. 2.87 in.
Peso conjunto magnético	6.5 kg. 14.33 lb.
Densidad de flujo	1.875 T
Factor BL	10 N/A

Material de la membrana
Cúpula de titanio con suspensión de poliéster

Technical specifications

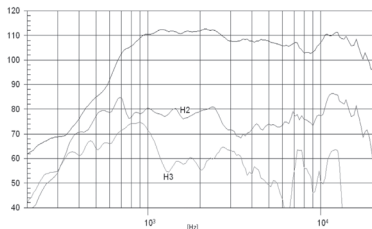
Throat diameter	36 mm. 1.4 in.
Rated impedance	8 ohms.
Minimum impedance	7.3 ohms. @ 3.5 kHz
D.C. Resistance	5.5 ohms.
Power capacity*	70 w AES por encima / above 0,8 kHz 90 w AES por encima / above 1,5 kHz 140 w AES por encima / above 0,8 kHz 180 w AES por encima / above 1,5 kHz
Program Power	110 dB 1 w @ 1 m acoplado a bocina / coupled to TD-565 horn
Sensitivity**	110 dB 1 w @ 1 m acoplado a bocina / coupled to TD-565 horn
Frequency range	0.6 - 20 kHz
Recom. crossover	800 Hz o mayor / or higher, (12 dB/oct. min.)
Voice coil diameter	72.2 mm. 2.87 in.
Magnetic assembly weight	6.5 kg. 14.33 lb.
Flux density	1.875 T
BL factor	10 N/A
Diaphragm material	Titanium dome with polyester surround

Características constructivas

Diámetro externo	192 mm. 7.56 in.
Profundidad	78 mm. 3.07 in.
Montaje	4 agujeros roscados de M6 a 90°, con un diámetro entre ejes de 101.6 mm. (4 in.) Elementos de montaje y sujeción incluidos.
Peso neto	6.75 kg. 14.85 lb.
Peso total	7 kg. 15.4 lb.

Mounting information

Overall diameter	192 mm. 7.56 in.
Depth	78 mm. 3.07 in.
Mounting	4 agujeros roscados de M6 a 90°, con un diámetro entre ejes de 101.6 mm. (4 in.) Mounting hardware is supplied.
Net weight	6.75 kg. 14.85 lb.
Shipping weight	7 kg. 15.4 lb.



Nota: respuesta de frecuencia medida en el eje acoplado a una bocina TD365 en el interior de cámara anecoica, 2.83 v @ 1m.

Note: on axis frequency response measured coupled to TD365 horn in anechoic chamber, 2.83 v @ 1m.

CD1014Nd

Especificaciones técnicas

Diámetro de garganta	36 mm. 1.4 in.
Impedancia nominal	8 ohms.
Resistencia eléctrica	5.6 ohms.
Potencia admisible*	70 w AES por encima / above 1.2 kHz
Potencia programa	140 w AES por encima / above 1.2 kHz
Sensibilidad**	110 dB 2.83 v @ 1 m acoplado a bocina / coupled to TD-365 horn

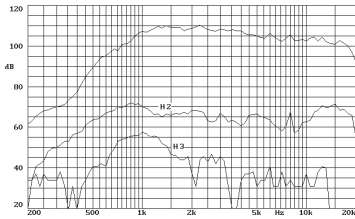
Rango de frecuencias	0.7 - 19 kHz
Frecuencia de corte recom.	1.2 kHz o mayor / or higher (12 dB/oct. min.)
Diámetro de bobina	44.4 mm. 1.75 in.
Peso conjunto magnético	1.2 kg. 2.64 lb.
Densidad de flujo	1.65 T
Factor BL	6.6 N/A

Características constructivas

Diámetro externo	115 mm. 4.5 in.
Profundidad	76 mm. 2.9 in.
Montaje	4 agujeros roscados de M6 a 90°, con un diámetro entre ejes de 101.6 mm. (4 in.)
Peso neto	1.51 kg. 3.32 lb.
Peso total	1.58 kg. 3.48 lb.

Technical specifications

Throat diameter	36 mm. 1.4 in.
Rated impedance	8 ohms.
D.C. Resistance	5.6 ohms.
Power capacity*	70 w AES por encima / above 1.2 kHz
Program Power	140 w AES por encima / above 1.2 kHz
Sensitivity**	110 dB 2.83 v @ 1 m acoplado a bocina / coupled to TD-365 horn
Frequency range	0.7 - 19 kHz
Recom. crossover	1.2 kHz o mayor / or higher (12 dB/oct. min.)
Voice coil diameter	44.4 mm. 1.75 in.
Magnetic assembly weight	1.2 kg. 2.64 lb.
Flux density	1.65 T
BL factor	6.6 N/A
Overall diameter	115 mm. 4.5 in.
Depth	76 mm. 2.9 in.
Mounting	4 agujeros roscados de M6 a 90°, con un diámetro entre ejes de 101.6 mm. (4 in.) Four M6 threaded holes, 90° apart on 101.6 mm. (4 in.) diameter circle.
Net weight	1.51 kg. 3.32 lb.
Shipping weight	1.58 kg. 3.48 lb.



Nota: respuesta de frecuencia medida en el eje acoplado a una bocina TD 250 en el interior de cámara anecoica, 1w @ 1m.

Note: on axis frequency response measured coupled to TD250 horn in anechoic chamber, 1w @ 1m.

CP380/M

Especificaciones técnicas

Diámetro de garganta	25 mm. 1 in.
Impedancia nominal	8 ohms.
Impedancia mínima	5.2 ohms. @ 4.5 kHz
Resistencia eléctrica	4.7 ohms.
Potencia admisible*	50 w AES por encima / above 1.2 kHz 70 w AES por encima / above 2 kHz

Potencia programa

Sensibilidad**

Rango de frecuencias

Frecuencia de corte recom.

Diámetro de bobina

Peso conjunto magnético

Densidad de flujo

Factor BL

Material de la membrana

Technical specifications

Throat diameter	25 mm. 1 in.
Rated impedance	8 ohms.
Minimum impedance	5.2 ohms. @ 4.5 kHz
D.C. Resistance	4.7 ohms.
Power capacity*	50 w AES por encima / above 1.2 kHz 70 w AES por encima / above 2 kHz
Program Power	100 w AES por encima / above 1.2 kHz 140 w AES por encima / above 2 kHz
Sensitivity**	107 dB 1 w @ 1 m acoplado a bocina / coupled to TD-250 horn
Frequency range	0.8 - 20 kHz
Recom. crossover	1.2 kHz o mayor / or higher (12 dB/oct. min.)
Voice coil diameter	44.4 mm. 1.75 in.
Magnetic assembly weight	3 kg. 6.67 lb.
Flux density	2 T
BL factor	7 N/A
Diaphragm material	Poliéster / Polyester

Características constructivas

Diámetro externo

Profundidad

Montaje

3 agujeros roscados de M5 a 120°, con un diámetro entre ejes de 57 mm. (2.24 in.)

2 agujeros roscados de M5 a 180°, con un diámetro entre ejes de 76.2 mm. (3 in.)

Elementos de montaje y sujeción incluidos.

Peso neto

Peso total

Mounting information

Overall diameter

Depth

Mounting

Three M5 threaded holes, 120° apart on 57 mm. (2.24 in.) diameter circle.

Two M5 threaded holes, 180° apart on 76.2 mm. (3 in.) diameter circle.

Mounting hardware is supplied.

Net weight

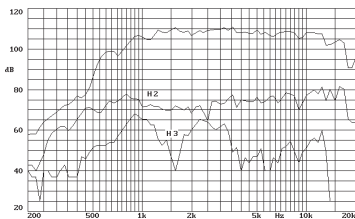
Shipping weight

146.5 mm. 5.77 in.

75 mm. 2.95 in.

3.25 kg. 7.16 lb.

3.4 kg. 7.5 lb.



Nota: respuesta de frecuencia medida en el eje acoplado a una bocina TD250 en el interior de cámara anecoica, 1w @ 1m.

Note: on axis frequency response measured coupled to TD250 horn in anechoic chamber, 1w @ 1m.

CP385Nd

Especificaciones técnicas

Diámetro de garganta	25 mm. 1 in.
Impedancia nominal	8 ohms.
Impedancia mínima	5.2 ohms. @ 4.5 kHz
Resistencia eléctrica	4.7 ohms.
Potencia admisible*	40 w AES por encima / above 1.2 kHz 60 w AES por encima / above 2 kHz

Potencia programa

Sensibilidad**

Rango de frecuencias

Frecuencia de corte recom.

Diámetro de bobina

Peso conjunto magnético

Densidad de flujo

Factor BL

Material de la membrana

Technical specifications

Throat diameter	25 mm. 1 in.
Rated impedance	8 ohms.
Minimum impedance	5.2 ohms. @ 4.5 kHz
D.C. Resistance	4.7 ohms.
Power capacity*	40 w AES por encima / above 1.2 kHz 60 w AES por encima / above 2 kHz
Program Power	80 w AES por encima / above 1.2 kHz 120 w AES por encima / above 2 kHz
Sensitivity**	107 dB 1 w @ 1 m acoplado a bocina / coupled to TD-250 horn
Frequency range	0.8 - 20 kHz
Recom. crossover	1.2 kHz o mayor / or higher (12 dB/oct. min.)
Voice coil diameter	44.4 mm. 1.75 in.
Magnetic assembly weight	1.1 kg. 2.42 lb.
Flux density	2.2 T
BL factor	7.5 N/A
Diaphragm material	Poliéster / Polyester

Características constructivas

Diámetro externo

Profundidad

Montaje

3 agujeros roscados de M5 a 120°, con un diámetro entre ejes de 57 mm. (2.24 in.)

2 agujeros roscados de M5 a 180°, con un diámetro entre ejes de 76.2 mm. (3 in.)

Elementos de montaje y sujeción incluidos.

Peso neto

Peso total

Mounting information

Overall diameter

Depth

Mounting

Three M-5 threaded holes, 120° apart on 57 mm. (2.24 in.) diameter circle.

Two M-5 threaded holes, 180° apart on 76.2 mm. (3 in.) diameter circle.

Mounting hardware is supplied.

Net weight

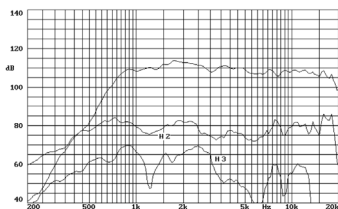
Shipping weight

100 mm. 4 in.

80 mm. 3.1 in.

1.35 kg. 2.97 lb.

1.5 kg. 3.3 lb.



Nota: respuesta de frecuencia medida en el eje acoplado a una bocina TD-164 en el interior de cámara anecoica, 1w @ 1m.

Note: on axis frequency response measured coupled to TD-164 horn in anechoic chamber, 1w @ 1m.

CD10Nd

Especificaciones técnicas

Diámetro de garganta
Impedancia nominal
Resistencia eléctrica
Potencia admisible*
Potencia programa
Sensibilidad**

Technical specifications

Throat diameter	25 mm. 1 in.
Rated impedance	8 ohms.
D.C. Resistance	4.3 ohms.
Power capacity*	70 w AES por encima / above 1.2 kHz
Program Power	140 w por encima / above 1.2 kHz
Sensitivity**	111 dB 2.83V @ 1 m acoplado a bocina TD-164 / coupled to TD-164 horn

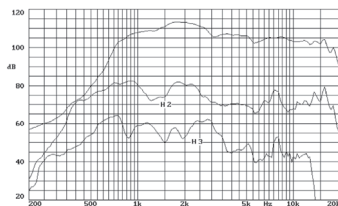
Rango de frecuencias	Frequency range	0.7 - 19 kHz
Frecuencia de corte recom.	Recom. crossover	1.2 kHz o mayor / or higher (12 dB/oct. min.)
Diámetro de bobina	Voice coil diameter	44.4 mm. 1.75 in.
Peso conjunto magnético	Magnetic assembly weight	1.1 kg. 2.42 lb.
Densidad de flujo	Flux density	2.2 T
Factor BL	BL factor	8.9 N/A
Material de la membrana	Diaphragm material	PM4

Características constructivas

Diámetro externo	Overall diameter	100 mm. 4 in.
Profundidad	Depth	66.4 mm. 2.61 in.
Montaje	Mounting	
3 agujeros roscados de M5 a 120°, con un diámetro entre ejes de 57 mm. (2.24 in.)		
2 agujeros roscados de M5 a 180°, con un diámetro entre ejes de 76.2 mm. (3 in.)		

Mounting information

Overall diameter	100 mm. 4 in.
Depth	66.4 mm. 2.61 in.
Mounting	
Three M5 threaded holes, 120° apart on 57 mm. (2.24 in.) diameter circle.	
Two M5 threaded holes, 180° apart on 76.2 mm. (3 in.) diameter circle.	
Net weight	1.2 kg. 2.64 lb.
Shipping weight	1.3 kg. 2.86 lb.



Nota: respuesta de frecuencia medida en el eje acoplado a una bocina TD-164 en el interior de cámara anecoica, 1w @ 1m.

Note: on axis frequency response measured coupled to TD-164 horn in anechoic chamber, 1w @ 1m.

CD10Fe

Especificaciones técnicas

Diámetro de garganta
Impedancia nominal
Resistencia eléctrica
Potencia admisible*
Potencia programa
Sensibilidad**

Technical specifications

Throat diameter	25 mm. 1 in.
Rated impedance	8 ohms.
D.C. Resistance	4.3 ohms.
Power capacity*	70 w AES por encima / above 1.2 kHz
Program Power	140 w por encima / above 1.2 kHz
Sensitivity**	109 dB 2.83V @ 1 m acoplado a bocina TD-164 / coupled to TD-164 horn

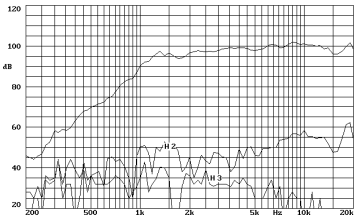
Rango de frecuencias	Frequency range	0.7 - 19 kHz
Frecuencia de corte recom.	Recom. crossover	1.2 kHz o mayor / or higher (12 dB/oct. min.)
Diámetro de bobina	Voice coil diameter	44.4 mm. 1.75 in.
Peso conjunto magnético	Magnetic assembly weight	1.2 kg. 2.64 lb.
Densidad de flujo	Flux density	1.65 T
Factor BL	BL factor	6.6 N/A
Material de la membrana	Diaphragm material	PM4

Características constructivas

Diámetro externo	Overall diameter	102 mm. 4 in.
Profundidad	Depth	62 mm. 2.44 in.
Montaje	Mounting	
3 agujeros roscados de M5 a 120°, con un diámetro entre ejes de 57 mm. (2.24 in.)		
2 agujeros roscados de M5 a 180°, con un diámetro entre ejes de 76.2 mm. (3 in.)		

Mounting information

Overall diameter	102 mm. 4 in.
Depth	62 mm. 2.44 in.
Mounting	
Three M5 threaded holes, 120° apart on 57 mm. (2.24 in.) diameter circle.	
Two M5 threaded holes, 180° apart on 76.2 mm. (3 in.) diameter circle.	
Net weight	1.3 kg. 2.86 lb.
Shipping weight	1.4 kg. 3.1 lb.



Nota: respuesta en frecuencia medida en el eje en cámara anecoica, 1w @ 1m.

Note: on axis frequency response measured in anechoic chamber, 1w @ 1m

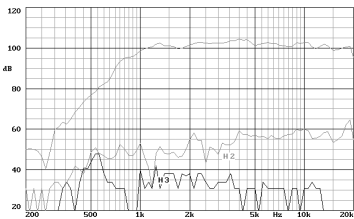
TPL 150

Especificaciones técnicas

Impedancia nominal	Resistencia eléctrica	Potencia admisible*	Potencia programa	Sensibilidad	Rango de frecuencias	Frecuencia de corte recom.	Peso neto	Dimensiones externas
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Technical specifications

Rated impedance	D.C. Resistance	Power capacity*	Program Power	Sensitivity**	Frequency range	Recom. crossover	Net weight	Overall dimensions
8 ohms.	5.9 ohms.	80 w AES por encima / above 1 kHz	160 w por encima / above 1 kHz	99 dB 1 w @ 1 m	1 - 23 kHz	1 kHz o mayor / or higher (12 dB/oct. min.)	2.18 kg. 4.8 lb.	160 x 120 x 68 mm 6.30 x 4.72 x 2.68 in.



Nota: respuesta en frecuencia medida en el eje en cámara anecoica, 1w @ 1m.

Note: on axis frequency response measured in anechoic chamber, 1w @ 1m

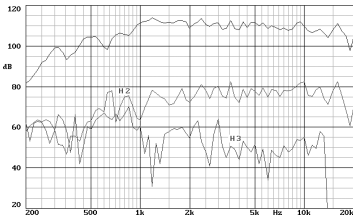
TPL 150/H

Especificaciones técnicas

Impedancia nominal	Resistencia eléctrica	Potencia admisible*	Potencia programa	Sensibilidad	Rango de frecuencias	Frecuencia de corte recom.	Ángulo de cobertura horizontal	Ángulo de cobertura vertical	Factor de directividad (Q)	Índice de directividad (DI)	Frecuencia de corte	Dimensiones totales	Dimensiones de recorte	Peso neto	Peso total
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Technical specifications

Rated impedance	D.C Resistance	Power capacity*	Program Power	Sensitivity	Frequency range	Recom. crossover	Horizontal beamwidth	Vertical beamwidth	Directivity factor (Q)	Directivity index (DI)	Cutoff frequency	Overall dimensions (WxHxD)	Cutout dimensions (WxH)	Net weight	Shipping weight
8 ohms	4.9 ohms	80 w AES por encima / above 1 kHz	160 w por encima / above 1 kHz	102 dB 1 w @ 1 m	0.7 - 23 kHz	1 kHz o mayor / or higher (12 dB/oct. min.)	80° (+9°, -20°)	(-6 dB, 1.2 - 16 kHz) 30° (+27°, -21°)	27 (promedio / average 1.2 - 16 kHz)	13 dB (+6 dB, -4.5)	800 Hz	230x230x148 mm. 9.05x9.05x5.8 in.	195x195 mm. 7.68x7.68 in.	3.68 kg. 8.10 lb.	4.08 kg. 8.76 lb.



Nota: respuesta de frecuencia medida en el eje con dos guías de ondas acopladas a una bocina de 90° X 5° en el interior de cámara anecoica, 1w @ 1m.

Note: on axis frequency response measured with two waveguides coupled to a 90° x 5° horn in anechoic chamber, 1w @ 1m.

WL5

Especificaciones técnicas

Diámetro de garganta	
Impedancia nominal	
Impedancia mínima	
Resistencia eléctrica	
Potencia admisible*	

Potencia programa

Sensibilidad

Rango de frecuencias

Frecuencia de corte recom.

Diámetro de bobina

Peso conjunto magnético

Densidad de flujo

Factor BL

Material de la membrana

Cúpula de titanio con suspensión de poliéster

Technical specifications

Throat diameter	36 mm. 1.4 in.
Rated impedance	8 ohms.
Minimum impedance	7.2 ohms. @ 3 kHz
D.C. Resistance	5.5 ohms.
Power capacity*	50 w AES por encima / above 0.8 kHz 70 w AES por encima / above 1.5 kHz

Program Power

Sensitivity**

Frequency range

Recom. crossover

Voice coil diameter

Magnetic assembly weight

Flux density

BL factor

Diaphragm material

Titanium dome with polyester surround

Características constructivas

Diámetro externo	
Profundidad	
Montaje	
4 agujeros de 7.5 mm. diámetro	

Peso neto

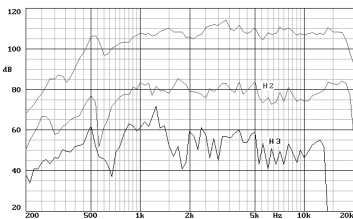
Peso total

Mounting information

Overall diameter	123 mm. 4.48 in.
Depth	271 mm. 10.67 in.
Mounting	
Four 7.5 mm. diameter holes	

Net weight (one unit)

Shipping weight (two units)



Nota: respuesta de frecuencia medida en el eje con dos guías de ondas acopladas a una bocina de 90° X 5° en el interior de cámara anecoica, 1w @ 1m.

Note: on axis frequency response measured with two waveguides coupled to a 90° x 5° horn in anechoic chamber, 1w @ 1m.

WL4

Especificaciones técnicas

Diámetro de garganta	
Impedancia nominal	
Impedancia mínima	
Resistencia eléctrica	
Potencia admisible*	
Potencia programa	
Sensibilidad	

Rango de frecuencias

Frecuencia de corte recom.

Diámetro de bobina

Peso conjunto magnético

Densidad de flujo

Factor BL

Material de la membrana

Technical specifications

Throat diameter	20.5 mm. 0.8 in.
Rated impedance	8 ohms.
Minimum impedance	5.5 ohms. @ 4.5 kHz
D.C. Resistance	5.6 ohms.
Power capacity*	40 w AES por encima / above 1.5 kHz
Program Power	80 w por encima / above 1.5 kHz
Sensitivity**	105 dB 1 w @ 1 m acoplado a bocina / coupled to 90° x 5° horn

Frequency range

Recom. crossover

Voice coil diameter

Magnetic assembly weight

Flux density

BL factor

Diaphragm material

Poliéster / Polyester

Características constructivas

Diámetro externo	
Profundidad	
Montaje	
4 agujeros 6 mm. diámetro	

Peso neto

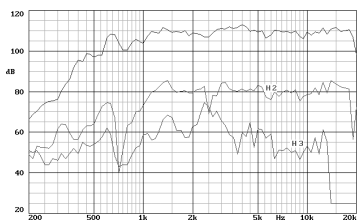
Peso total

Mounting information

Overall diameter	80 mm. 3.15 in.
Depth	195 mm. 7.68 in.
Mounting	
Four 6 mm. diameter holes	

Net weight (one unit)

Shipping weight (two units)



Nota: respuesta de frecuencia medida en el eje con dos guías de ondas acopladas a una bocina de 90° X 5° en el interior de cámara anecoica, 1w @ 1m.

Note: on axis frequency response measured with two waveguides coupled to a 90° x 5° horn in anechoic chamber, 1w @ 1m.

WL3

Especificaciones técnicas

Diámetro de garganta
Impedancia nominal
Impedancia mínima
Resistencia eléctrica
Potencia admisible*
Potencia programa
Sensibilidad

Technical specifications

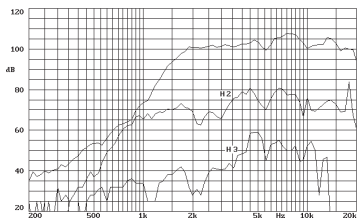
Throat diameter	20.5 mm. 0.8 in.
Rated impedance	8 ohms.
Minimum impedance	5.5 ohms. @ 4.5 kHz
D.C. Resistance	5.6 ohms.
Power capacity*	40 w AES por encima / above 1.5 kHz
Program Power	80 w por encima / above 1.5 kHz
Sensitivity**	105 dB 1 w @ 1 m

acoplado a bocina / coupled to 90° x 5° horn		
Rango de frecuencias	Frequency range	0.7 - 20 kHz
Frecuencia de corte recom.	Recom. crossover	1500 Hz o mayor / or higher (12 dB/oct. min.)
Diámetro de bobina	Voice coil diameter	44.4 mm. 1.75 in.
Peso conjunto magnético	Magnetic assembly weight	0.6 kg. 1.32 lb.
Densidad de flujo	Flux density	1.8 T
Factor BL	BL factor	8 N/A
Material de la membrana	Diaphragm material	Poliéster / Polyester

Características constructivas

Diámetro externo	Overall diameter	80 mm. 3.15 in.
Profundidad	Depth	142 mm. 5.60 in.
Montaje	Mounting	
4 agujero 6 mm. diámetro		Four 6 mm. diameter holes
Peso neto	Net weight (one unit)	1 kg. 2.2 lb.
Peso total	Shipping weight (two units)	2.4 kg. 5.28 lb.

Mounting information



Nota: respuesta de frecuencia medida en el eje en cámara anecoica, 1w @ 1m.

Note: on axis frequency response measure in anechoic chamber, 1w @ 1m.

CP25

Especificaciones técnicas

Impedancia nominal
Impedancia mínima
Resistencia eléctrica
Potencia admisible*
Potencia programa
Sensibilidad**
Rango de frecuencias
Frecuencia de corte recom.
Dispersión H x V
Diámetro de bobina
Peso conjunto magnético
Densidad de flujo
Factor BL
Material de la membrana

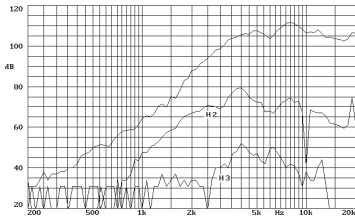
Technical specifications

Rated impedance	8 ohms.
Minimum impedance	8.5 ohms. @ 9 kHz
D.C. Resistance	6.1 ohms.
Power capacity*	25 w AES
Program Power	50 w
Sensitivity**	104 dB 1 w @ 1 m
Frequency range	2.5 - 20 kHz
Recom. crossover	5 kHz o mayor / or higher (12 dB/oct. min.)
Dispersion H x V	100° x 60°
Voice coil diameter	37.6 mm. 1.5 in.
Magnetic assembly weight	1.45 kg. 3.2 lb.
Flux density	1.75 T
BL factor	6 N/A
Diaphragm material	Aluminio / Aluminium

Características constructivas

Diámetro externo	Overall diameter	160x135 mm. 6.3x5.3 in.
Profundidad	Depth	125 mm. 4.9 in.
Diámetro de calado	Baffle cutout dimensions	120x130 mm. 4.72x5.12 in.
Peso neto	Net weight	1.7 kg. 3.75 lb.
Peso total	Shipping weight	1.84 kg. 4.05 lb.

Mounting information



Nota: respuesta de frecuencia medida en el eje en cámara anecoica, 1w @ 1m.

Note: on axis frequency response measure in anechoic chamber, 1w @ 1m.

CP22

Especificaciones técnicas

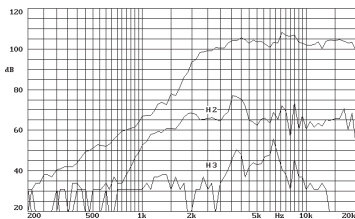
Impedancia nominal	Rated impedance	8 ohms.
Impedancia mínima	Minimum impedance	8.5 ohms. @ 9 kHz
Resistencia eléctrica	D.C. Resistance	6.1 ohms.
Potencia admisible*	Power capacity*	25 w AES
Potencia programa	Program Power	50 w
Sensibilidad**	Sensitivity**	107 dB 1 w @ 1 m
Rango de frecuencias	Frequency range	4 - 20 kHz
Frecuencia de corte recom.	Recom. crossover	5 kHz o mayor / or higher (12 dB/oct. min.)
Dispersión H x V	Dispersion H x V	40° Cónico / conical
Diámetro de bobina	Voice coil diameter	37.6 mm. 1.5 in.
Peso conjunto magnético	Magnetic assembly weight	1.2 kg. 2.64 lb.
Densidad de flujo	Flux density	1.55 T
Factor BL	BL factor	5.2 N/A
Material de la membrana	Diaphragm material	Aluminio / Aluminium

Características constructivas

Diámetro externo	Overall diameter	102x102 mm. 4x4 in.
Profundidad	Depth	71 mm. 2.79 in.
Diámetro de calado	Baffle cutout dimensions	ø 92 mm. 3.62 in.
Diámetro entre agujeros de sujeción	Bolt circle diameter	107 mm. 4.21 in.
Peso neto	Net weight	1.6 kg. 3.5 lb.
Peso total	Shipping weight	1.67 kg. 3.67 lb.

Technical specifications

Diámetro externo	Overall diameter	102x102 mm. 4x4 in.
Profundidad	Depth	71 mm. 2.79 in.
Diámetro de calado	Baffle cutout dimensions	ø 92 mm. 3.62 in.
Diámetro entre agujeros de sujeción	Bolt circle diameter	107 mm. 4.21 in.
Peso neto	Net weight	1.6 kg. 3.5 lb.
Peso total	Shipping weight	1.67 kg. 3.67 lb.



Nota: respuesta de frecuencia medida en el eje en cámara anecoica, 1w @ 1m.

Note: on axis frequency response measure in anechoic chamber, 1w @ 1m.

CP21/F

Especificaciones técnicas

Impedancia nominal	Rated impedance	8 ohms.
Impedancia mínima	Minimum impedance	8 ohms. @ 9 kHz
Resistencia eléctrica	D.C. Resistance	6.1 ohms.
Potencia admisible*	Power capacity*	25 w AES
Potencia programa	Program Power	50 w
Sensibilidad**	Sensitivity**	105 dB 1 w @ 1 m
Rango de frecuencias	Frequency range	3.5 - 20 kHz
Frecuencia de corte recom.	Recom. crossover	5 kHz o mayor / or higher (12 dB/oct. min.)
Dispersión H x V	Dispersion H x V	140° x 40°
Diámetro de bobina	Voice coil diameter	37.6 mm. 1.5 in.
Peso conjunto magnético	Magnetic assembly weight	1.2 kg. 2.64 lb.
Densidad de flujo	Flux density	1.55 T
Factor BL	BL factor	5.2 N/A
Material de la membrana	Diaphragm material	Aluminio / Aluminium

Características constructivas

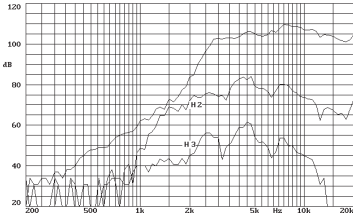
Diámetro externo	Overall diameter	102x102 mm. 4x4 in.
Profundidad	Depth	72 mm. 2.83 in.
Diámetro de calado	Baffle cutout dimensions	ø 92 mm. 3.62 in.
Diámetro entre agujeros de sujeción	Bolt circle diameter	107 mm. 4.21 in.
Peso neto	Net weight	1.7 kg. 3.75 lb.
Peso total	Shipping weight	1.75 kg. 3.85 lb.

Technical specifications

Diámetro externo	Overall diameter	102x102 mm. 4x4 in.
Profundidad	Depth	72 mm. 2.83 in.
Diámetro de calado	Baffle cutout dimensions	ø 92 mm. 3.62 in.
Diámetro entre agujeros de sujeción	Bolt circle diameter	107 mm. 4.21 in.
Peso neto	Net weight	1.7 kg. 3.75 lb.
Peso total	Shipping weight	1.75 kg. 3.85 lb.

Mounting information

Diámetro externo	Overall diameter	102x102 mm. 4x4 in.
Profundidad	Depth	72 mm. 2.83 in.
Diámetro de calado	Baffle cutout dimensions	ø 92 mm. 3.62 in.
Diámetro entre agujeros de sujeción	Bolt circle diameter	107 mm. 4.21 in.
Peso neto	Net weight	1.7 kg. 3.75 lb.
Peso total	Shipping weight	1.75 kg. 3.85 lb.



Nota: respuesta de frecuencia medida en el eje en cámara anecoica, 1w @ 1m.

Note: on axis frequency response measure in anechoic chamber, 1w @ 1m.

CP16

Especificaciones técnicas

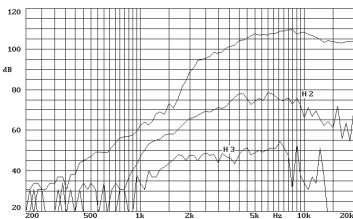
Impedancia nominal	Rated impedance	8 ohms.
Impedancia mínima	Minimum impedance	8.5 ohms. @ 10 kHz
Resistencia eléctrica	D.C. Resistance	7.3 ohms.
Potencia admisible*	Power capacity*	15 w AES
Potencia programa	Program Power	30 w
Sensibilidad**	Sensitivity**	105 dB 1 w @ 1 m
Rango de frecuencias	Frequency range	3 - 20 kHz
Frecuencia de corte recom.	Recom. crossover	6 kHz o mayor / or higher (12 dB/oct. min.)
Dispersión H x V	Dispersion H x V	40° cónico / conical
Diámetro de bobina	Voice coil diameter	25.8 mm. 1 in.
Peso conjunto magnético	Magnetic assembly weight	0.66 kg. 1.45 lb.
Densidad de flujo	Flux density	1.45 T
Factor BL	BL factor	4 N/A
Material de la membrana	Diaphragm material	Aluminio / Aluminium

Technical specifications

Características constructivas

Diámetro externo	Overall diameter	86x86 mm. 3.38x3.38 in.
Profundidad	Depth	65 mm. 2.56 in.
Diámetro de calado	Baffle cutout dimensions	ø 75 mm. 2.95 in.
Diámetro entre agujeros de sujeción	Bolt circle diameter	92 mm. 3.62 in.
Peso neto	Net weight	0.76 kg. 1.67 lb.
Peso total	Shipping weight	0.8 kg. 1.76 lb.

Mounting information



Nota: respuesta de frecuencia medida en el eje en cámara anecoica, 1w @ 1m.

Note: on axis frequency response measure in anechoic chamber, 1w @ 1m.

CP12/N

Especificaciones técnicas

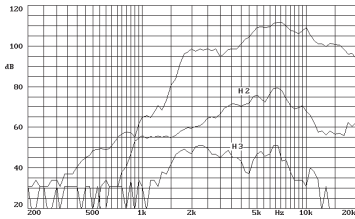
Impedancia nominal	Rated impedance	8 ohms.
Impedancia mínima	Minimum impedance	8 ohms. @ 8 kHz
Resistencia eléctrica	D.C. Resistance	5 ohms.
Potencia admisible*	Power capacity*	15 w AES
Potencia programa	Program Power	30 w
Sensibilidad**	Sensitivity**	107 dB 1 w @ 1 m
Rango de frecuencias	Frequency range	3 - 20 kHz
Frecuencia de corte recom.	Recom. crossover	6 kHz, (12 dB/oct. min.)
Dispersión H x V	Dispersion H x V	40° cónico / conical
Diámetro de bobina	Voice coil diameter	25.8 mm. 1 in.
Peso conjunto magnético	Magnetic assembly weight	0.7 kg. 1.54 lb.
Densidad de flujo	Flux density	1.4 T
Factor BL	BL factor	4 N/A
Material de la membrana	Diaphragm material	Aluminio / Aluminium

Technical specifications

Características constructivas

Diámetro externo	Overall diameter	87x87 mm. 3.4x3.4 in.
Profundidad	Depth	72 mm. 2.83 in.
Diámetro de calado	Baffle cutout dimensions	ø 74 mm. 2.9 in.
Diámetro entre agujeros de sujeción	Bolt circle diameter	91 mm. 3.58 in.
Peso neto	Net weight	0.75 kg. 1.65 lb.
Peso total	Shipping weight	0.85 kg. 1.87 lb.

Mounting information



Nota: respuesta de frecuencia medida en el eje en cámara anecoica, 1w @ 1m.

Note: on axis frequency response measure in anechoic chamber, 1w @ 1m.

CP09

Especificaciones técnicas

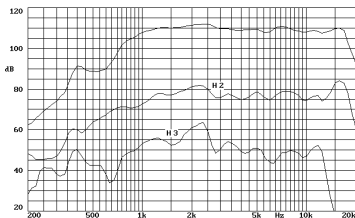
Impedancia nominal	Rated impedance	8 ohms.
Impedancia mínima	Minimum impedance	7.5 ohms. @ 8 kHz
Resistencia eléctrica	D.C. Resistance	5 ohms.
Potencia admisible*	Power capacity*	15 w AES
Potencia programa	Program Power	30 w
Sensibilidad**	Sensitivity**	104 dB 1 w @ 1 m
Rango de frecuencias	Frequency range	2 - 20 kHz
Frecuencia de corte recom.	Recom. crossover	6 kHz, (12 dB/oct. min.)
Dispersión H x V	Dispersion H x V	90° x 60° cónico / conical
Diámetro de bobina	Voice coil diameter	25.8 mm. 1 in.
Peso conjunto magnético	Magnetic assembly weight	0.7 kg. 1.54 lb.
Densidad de flujo	Flux density	1.4 T
Factor BL	BL factor	4 N/A
Material de la membrana	Diaphragm material	Aluminio / Aluminium

Technical specifications

Características constructivas

Diámetro externo	Overall diameter	98x92 mm. 3.85x3.6 in.
Profundidad	Depth	96 mm. 3.78 in.
Diámetro de calado	Baffle cutout dimensions	90x70 mm. 3.54x2.75 in.
Diámetro entre agujeros de sujeción	Bolt circle diameter	91 mm. 3.58 in.
Peso neto	Net weight	0.75 kg. 1.65 lb.
Peso total	Shipping weight	0.85 kg. 1.87 lb.

Mounting information



Nota: respuesta de frecuencia medida en el eje con dos guías de onda WL4 acopladas a TDWL4, 1w @ 1m.

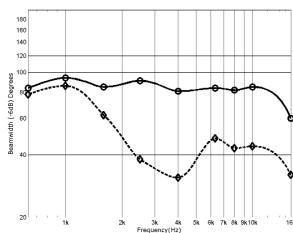
Note: on axis frequency response measured with two WL4 waveguides coupled to a TDWL4, 1w @ 1m

TDWL4

Especificaciones técnicas

Diámetro de garganta	Throat diameter	12x208 mm 0.47x8.19 in.
Ángulo de cobertura horizontal	Horizontal beamwidth	90° (+22°, -46°) (-6 dB, 1.2 - 16 kHz)
Ángulo de cobertura vertical	Vertical beamwidth	20° (+27°, -15°) (-6 dB, 2 - 16 kHz)
Factor de directividad (Q)	Directivity factor (Q)	60 (media / average 1.2 -16 kHz)
Índice de directividad (DI)	Directivity index (DI)	15.5 dB (+7 dB, -8.1 dB)
Frecuencia de corte	Cutoff frequency	800 Hz
Dimensiones (anch. x alt. x prof.)	Dimensions	W x H x D: 210 x 250 x 147 mm. 8.27 x 9.84 x 5.79 in
Dimensiones de calado (anch. x alt.)	Cutout dimensions	W x H: 174 x 247 mm. 6.85 x 9.72 in
Peso neto	Net weight	1.5 kg. 3.3 lb
Peso total	Shipping weight	1.8 kg. 3.96 lb
Construcción	Construction	Molde de aluminio / Cast aluminium

Technical specifications



Nota: El ángulo de cobertura horizontal se representa con la línea continua. El ángulo de cobertura vertical se representa con la línea discontinua.

Note: Horizontal beamwidth is represented by the heavy line. Vertical beamwidth is represented by the discontinuous line.

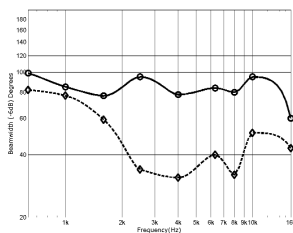
TD595

Especificaciones técnicas

Diámetro de garganta
 Ángulo de cobertura horizontal
 Ángulo de cobertura vertical
 Factor de directividad (Q)
 Índice de directividad (DI)
 Frecuencia de corte
 Dimensiones (anch. x alt. x prof.)
 Dimensiones de calado (anch. x alt.)
 Peso neto
 Peso total
 Construcción
 Espuma de poliuretano rígido.
 Adaptador de aluminio.
 Sujeción del motor por 4 tornillos, en un diámetro entre ejes de 4 in. (101.6 mm).
 Elementos de montaje y sujeción inculidos.

Technical specifications

Throat diameter 36 mm. 1.4 in.
 Horizontal beamwidth 90° (+4° -30°) (-6 dB, 0.63 - 16 kHz)
 Vertical beamwidth 40° (+22° -9°) (-6 dB, 1.6 - 16 kHz)
 Directivity factor (Q) 12.5 (media / average 0.63 -16 kHz)
 Directivity index (DI) 11 dB (+2.6 dB, -3.2 dB)
 Cutoff frequency 800 Hz
 Dimensions W x H x D: 250 x 280 x 220 mm.
 Cutout dimensions W x H: 215 x 245 mm.
 Net weight 1.2 kg.
 Shipping weight 2 kg.
 Construction Rigid polyurethane foam.
 Aluminium adaptor.
 Connection of driver by four screws on a 4 in (101.6 mm) diameter bolt circle.
 Mounting hardware is supplied.



Nota: El ángulo de cobertura horizontal se representa con la línea continua. El ángulo de cobertura vertical se representa con la línea discontinua.

Note: Horizontal beamwidth is represented by the heavy line. Vertical beamwidth is represented by the discontinuous line.

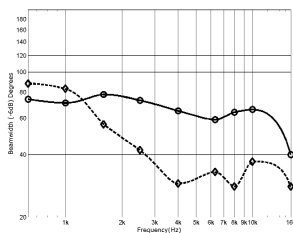
TD590

Especificaciones técnicas

Diámetro de garganta
 Ángulo de cobertura horizontal
 Ángulo de cobertura vertical
 Factor de directividad (Q)
 Índice de directividad (DI)
 Frecuencia de corte
 Dimensiones (anch. x alt. x prof.)
 Dimensiones de calado (anch. x alt.)
 Peso neto
 Peso total
 Construcción
 Espuma de poliuretano rígido.
 Adaptador de aluminio.
 Sujeción del motor por 4 tornillos, en un diámetro entre ejes de 4 in. (101.6 mm).
 Elementos de montaje y sujeción inculidos.

Technical specifications

Throat diameter 49 mm. 2 in.
 Horizontal beamwidth 90° (+9° -30°) (-6 dB, 0.63 - 16 kHz)
 Vertical beamwidth 40° (+19° -9°) (-6 dB, 1.6 - 16 kHz)
 Directivity factor (Q) 12.7 (media / average 0.63 -16 kHz)
 Directivity index (DI) 11 dB (+1.7 dB, -3.2 dB)
 Cutoff frequency 800 Hz
 Dimensions W x H x D: 250 x 280 x 220 mm.
 Cutout dimensions W x H: 215 x 245 mm.
 Net weight 1.2 kg.
 Shipping weight 2 kg.
 Construction Rigid polyurethane foam.
 Aluminium adaptor.
 Connection of driver by four screws on a 4 in (101.6 mm) diameter bolt circle.
 Mounting hardware is supplied.



Nota: El ángulo de cobertura horizontal se representa con la línea continua. El ángulo de cobertura vertical se representa con la línea discontinua.

Note: Horizontal beamwidth is represented by the heavy line. Vertical beamwidth is represented by the discontinuous line.

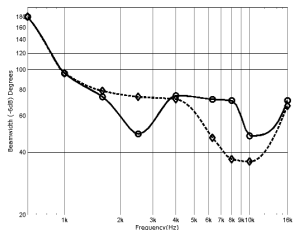
TD460/N

Especificaciones técnicas

Diámetro de garganta	Throat diameter	49 mm. 2 in.
Ángulo de cobertura horizontal	Horizontal beamwidth	60° (+18° -20°) (-6 dB, 0.63 - 16 kHz)
Ángulo de cobertura vertical	Vertical beamwidth	40° (+16° -12°) (-6 dB, 1.6 - 16 kHz)
Factor de directividad (Q)	Directivity factor (Q)	18.5 (media / average 0.63 -16 kHz)
Índice de directividad (DI)	Directivity index (DI)	12.7 dB (+3.1 dB, -4.1 dB)
Frecuencia de corte	Cutoff frequency	800 Hz
Dimensiones (anch. x alt. x prof.)	Dimensions	W x H x D: 420 x 270 x 227 mm.
Dimensiones de calado (anch. x alt.)	Cutout dimensions	W x H: 365 x 235 mm.
Peso neto	Net weight	2 kg.
Peso total	Shipping weight	2.8 kg.
Construcción	Construction	

Espuma de poliuretano rígido.
 Sujeción del motor por 4 tornillos,
 en un diámetro entre ejes de in. (101.6 mm).
 Elementos de montaje y sujeción incluidos.

Rigid polyurethane foam.
 Connection of driver by four screws
 on a 4 in (101.6 mm.) diameter bolt circle.
 Mounting hardware is supplied.



Nota: El ángulo de cobertura horizontal se representa con la línea continua. El ángulo de cobertura vertical se representa con la línea discontinua.

Note: Horizontal beamwidth is represented by the heavy line. Vertical beamwidth is represented by the discontinuous line.

TD385

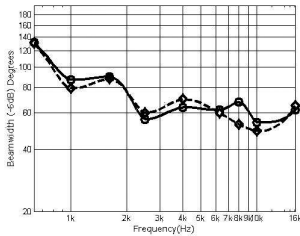
Especificaciones técnicas

Diámetro de garganta	Throat diameter	36 mm. 1.4 in.
Ángulo de cobertura horizontal	Horizontal beamwidth	80° (+16° -32°) (-6 dB, 1 - 20 kHz)
Ángulo de cobertura vertical	Vertical beamwidth	50° (+29° -14°) (-6 dB, 1.6 - 20 kHz)
Factor de directividad (Q)	Directivity factor (Q)	12.4 (media / average 0.63 -16 kHz)
Índice de directividad (DI)	Directivity index (DI)	10.5 dB (+3.5 dB, -3.2 dB)
Frecuencia de corte	Cutoff frequency	800 Hz
Dimensiones (anch. x alt. x prof.)	Dimensions (W x H x D)	235 x 235 x 120 mm. 9.25 x 9.25 x 4.72 in.

Dimensiones de calado (anch. x alt.)	Cutout dimensions (W x H)	204 x 202 mm. 8.03 x 7.95 in.
Peso neto	Net weight	1.2 kg. 2.64 lb.
Peso total	Shipping weight	1.53 kg. 3.37 lb.
Construcción	Construction	

Aluminio fundido.
 Sujeción del motor por 4 tornillos,
 en un diámetro entre ejes de 4 in. (101.6 mm).

Cast aluminium.
 Connection of driver by four screws
 on a 4 in (101.6 mm.) diameter bolt circle.



Nota: El ángulo de cobertura horizontal se representa con la línea continua. El ángulo de cobertura vertical se representa con la línea discontinua.

Note: Horizontal beamwidth is represented by the heavy line. Vertical beamwidth is represented by the discontinuous line.

TD365

Especificaciones técnicas

Diámetro de garganta
 Ángulo de cobertura horizontal
 Ángulo de cobertura vertical
 Factor de directividad (Q)
 Índice de directividad (DI)
 Frecuencia de corte
 Dimensiones (anch. x alt. x prof.)

Technical specifications

Throat diameter 36 mm. 1.4 in.
 Horizontal beamwidth 60° (+27° -6°) (-6 dB, 1 - 16 kHz)
 Vertical beamwidth 50° (+20° -1°) (-6 dB, 2.5 - 16 kHz)
 Directivity factor (Q) 11.1 (media / average 0.63 -16 kHz)
 Directivity index (DI) 10.3 dB (+1.9 dB, -2.4 dB)
 Cutoff frequency 800 Hz

Dimensiones de calado (anch. x alt.)

Cutout dimensions (W x H)

204 x 202 mm.

Peso neto

Net weight

1.2 kg. 2.64 lb.

Peso total

Shipping weight

1.53 kg. 3.37 lb.

Construcción

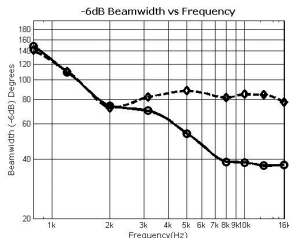
Construction

Cast aluminium.

Aluminio fundido.

Sujeción del motor por 4 tornillos, en un diámetro entre ejes de 4 in. (101.6 mm).

Connection of driver by four screws on a 4 in. (101.6 mm.) diameter bolt circle.



Nota: El ángulo de cobertura horizontal se representa con la línea continua. El ángulo de cobertura vertical se representa con la línea discontinua.

Note: Horizontal beamwidth is represented by the heavy line. Vertical beamwidth is represented by the discontinuous line.

TD194

Especificaciones técnicas

Diámetro de garganta
 Ángulo de cobertura horizontal
 Ángulo de cobertura vertical
 Factor de directividad (Q)
 Índice de directividad (DI)
 Frecuencia de corte
 Dimensiones (anch. x alt. x prof.)

Technical specifications

Throat diameter 25.4 mm. 1 in.
 Horizontal beamwidth 90° (-2°, -18°) (-6 dB, 2 - 16 kHz)
 Vertical beamwidth 40° (+34°, -3°) (-6 dB, 2 - 16 kHz)
 Directivity factor (Q) 11.2 (media / average 800 -16 kHz)
 Directivity index (DI) 10.2 dB (+2 dB, -6.4 dB)
 Cutoff frequency 1200 kHz
 Dimensions W x H x D: 202 x 202 x 145 mm.

Dimensiones de calado (anch. x alt.)

Cutout dimensions

W x H: 177 x 177 mm. 6.97 x 6.97 in.

Peso neto

Net weight

1 kg. 2.2 lb.

Peso total

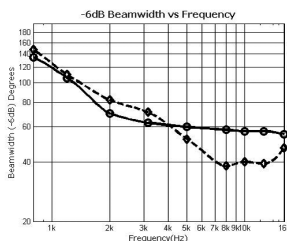
Shipping weight

1.3 kg. 2.86 lb.

Construcción Aluminio fundido.

Construction

Cast aluminium.



Nota: El ángulo de cobertura horizontal se representa con la línea continua. El ángulo de cobertura vertical se representa con la línea discontinua.

Note: Horizontal beamwidth is represented by the heavy line. Vertical beamwidth is represented by the discontinuous line.

TD164

Especificaciones técnicas

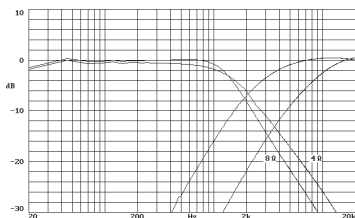
Diámetro de garganta
 Ángulo de cobertura horizontal
 Ángulo de cobertura vertical
 Factor de directividad (Q)
 Índice de directividad (DI)
 Frecuencia de corte
 Dimensiones (anch. x alt. x prof.)

Technical specifications

Throat diameter 25.4 mm. 1 in.
 Horizontal beamwidth 60° (+10°, -5°) (-6 dB, 2 - 16 kHz)
 Vertical beamwidth 40° (+31°, -2°) (-6 dB, 3 - 16 kHz)
 Directivity factor (Q) 14.1 (media / average 800 -16 kHz)
 Directivity factor (DI) 11 dB (+2 dB, -6.4 dB)
 Cutoff frequency 1200 kHz
 Dimensions W x H x D: 202 x 202 x 145 mm.
 7.95 x 7.95 x 5.7 in.

Dimensiones de calado (anch. x alt.) Cutout dimensions W x H: 177 x 177 mm. 6.97 x 6.97 in
 Peso neto Net weight 1 kg. 2.2 lb.
 Peso total Shipping weight 1.3 kg. 2.86 lb.
 Construcción Aluminio fundido. Construction Cast aluminium.

FILTRO PASIVO / FILTER



FD350

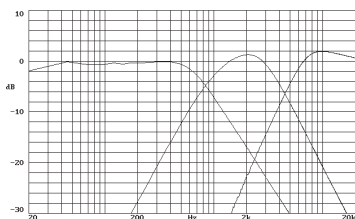
Especificaciones técnicas

Tipo
 Frecuencia de corte
 Potencia admisible* (RMS)
 Impedancia LF
 Impedancia HF
 Pendiente atenuación (alta/baja)
 Atenuación HF
 Ecuilización

Technical specifications

Type 3 vias / way
 Crossover frequency 2 - 7 kHz
 Power capacity (RMS) 600 w
 Low frequency impedance 4 - 8 ohms.
 High frequency impedance 8 ohms.
 Attenuation slope (low/high) 12 dB/oct.
 H.F. attenuation 0, - 6 dB (MF & HF)
 Equalization -3 dB @ 3.5 kHz

FILTRO PASIVO / FILTER



F300

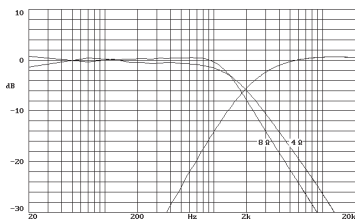
Especificaciones técnicas

Tipo
 Frecuencia de corte
 Potencia admisible* (RMS)
 Impedancia LF
 Impedancia HF
 Pendiente atenuación (alta/baja)
 Atenuación HF
 Ecuilización

Technical specifications

Type 3 vias / way
 Crossover frequency 0.8 - 5 kHz
 Power capacity (RMS) 300 w
 Low frequency impedance 8 ohms.
 High frequency impedance 8 ohms.
 Attenuation slope (low/high) 12 dB/oct.
 H.F. attenuation 0 dB
 Equalization 0 dB

FILTRO PASIVO / FILTER



FD250

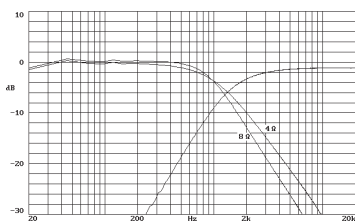
Especificaciones técnicas

Tipo	2 vias / way
Frecuencia de corte	2 kHz
Potencia admisible* (RMS)	600 w
Impedancia LF	4-8 ohms.
Impedancia HF	8 ohms.
Pendiente atenuación (alta/baja)	12 dB/oct.
Atenuación HF	0, - 3, - 6, - 7.5 dB
Ecuilización	-3 dB @ 3.5 kHz

Technical specifications

Type	2 vias / way
Crossover frequency	2 kHz
Power capacity (RMS)	600 w
Low frequency impedance	4-8 ohms.
High frequency impedance	8 ohms.
Attenuation slope (low/high)	12 dB/oct.
H.F. attenuation	0, - 3, - 6, - 7.5 dB
Equalization	-3 dB @ 3.5 kHz

FILTRO PASIVO / FILTER



FD212

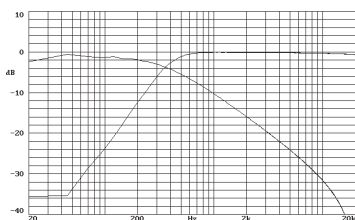
Especificaciones técnicas

Tipo	2 vias / way
Frecuencia de corte	1.2 kHz
Potencia admisible* (RMS)	600 w
Impedancia LF	4-8 ohms.
Impedancia HF	8 ohms.
Pendiente atenuación (alta/baja)	12 dB/oct.
Atenuación HF	0, - 3, - 6, - 7.5 dB
Ecuilización	-3 dB @ 3.5 kHz

Technical specifications

Type	2 vias / way
Crossover frequency	1.2 kHz
Power capacity (RMS)	600 w
Low frequency impedance	4-8 ohms.
High frequency impedance	8 ohms.
Attenuation slope (low/high)	12 dB/oct.
H.F. attenuation	0, - 3, - 6, - 7.5 dB
Equalization	-3 dB @ 3.5 kHz

FILTRO PASIVO / FILTER



F200

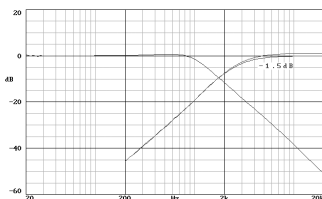
Especificaciones técnicas

Tipo	2 vias / way
Frecuencia de corte	400 Hz
Potencia admisible* (RMS)	300 w
Impedancia LF	8 ohms.
Impedancia HF	8 ohms.
Pendiente atenuación (alta/baja)	6 - 12 dB/oct.
Atenuación HF	0 dB
Ecuilización	0 dB

Technical specifications

Type	2 vias / way
Crossover frequency	400 Hz
Power capacity (RMS)	300 w
Low frequency impedance	8 ohms.
High frequency impedance	8 ohms.
Attenuation slope (low/high)	6 - 12 dB/oct.
H.F. attenuation	0 dB
Equalization	0 dB

FILTRO PASIVO / FILTER



Nota: Este filtro está especialmente diseñado para ser utilizado por 12XA30/Nd y 15XA38/Nd.

Note: This filter is specially designed to use with the 12XA30/Nd and 15XA38/Nd.

FD2XA

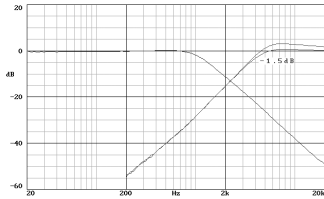
Especificaciones técnicas

Tipo	2 vias / way
Frecuencia de corte	1.8 kHz
Potencia admisible* (RMS)	600 w
Impedancia LF	8 ohms.
Impedancia HF	16 ohms.
Pendiente atenuación (alta/baja)	12 dB/oct.
Atenuación HF	0, -1.5 dB
Ecuilización	None

Technical specifications

Type	2 vias / way
Crossover frequency	1.8 kHz
Power capacity (RMS)	600 w
Low frequency impedance	8 ohms.
High frequency impedance	16 ohms.
Attenuation slope (low/high)	12 dB/oct.
H.F. attenuation	0, -1.5 dB
Equalization	None

FILTRO PASIVO / FILTER



Nota: Este filtro está especialmente diseñado para ser utilizado por 8XC20 y 12XC30.

Note: This filter is specially designed to use with the 8XC20 and 12XC30.

FD2XC1

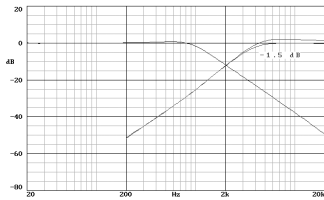
Especificaciones técnicas

Tipo	2 vias / way
Frecuencia de corte	2.2 kHz
Potencia admisible (RMS)	600 w
Impedancia LF	8 ohms.
Impedancia HF	16 ohms.
Pendiente atenuación (alta/baja)	12 dB/oct.
Atenuación HF	0, -1.5 dB
Ecuilización	None

Technical specifications

Type	2 vias / way
Crossover frequency	2.2 kHz
Power capacity (RMS)	600 w
Low frequency impedance	8 ohms.
High frequency impedance	16 ohms.
Attenuation slope (low/high)	12 dB/oct.
H.F. attenuation	0, -1.5 dB
Equalization	None

FILTRO PASIVO / FILTER



Nota: Este filtro está especialmente diseñado para ser utilizado por 8XC20 y 12XC30.

Note: This filter is specially designed to use with the 8XC20 and 12XC30.

FD2XC2

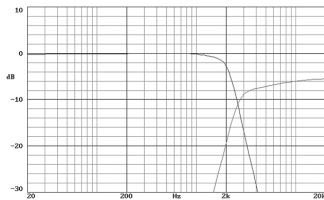
Especificaciones técnicas

Tipo	2 vias / way
Frecuencia de corte	2 kHz
Potencia admisible (RMS)	600 w
Impedancia LF	8 ohms.
Impedancia HF	16 ohms.
Pendiente atenuación (alta/baja)	12 dB/oct.
Atenuación HF	0, -1.5 dB
Ecuilización	None

Technical specifications

Type	2 vias / way
Crossover frequency	2 kHz
Power capacity (RMS)	600 w
Low frequency impedance	8 ohms.
High frequency impedance	16 ohms.
Attenuation slope (low/high)	12 dB/oct.
H.F. attenuation	0, -1.5 dB
Equalization	None

FILTRO PASIVO / FILTER



Nota: Este filtro está especialmente diseñado para ser utilizado por 5CX200Nd, 6CX200Nd y 8CX300Nd.

Note: This filter is specially designed to use with the 5CX200Nd, 6CX200Nd and 8CX300Nd.

FD2CX

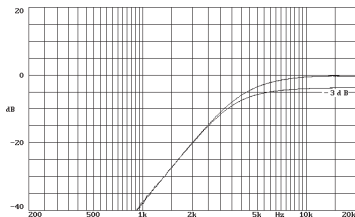
Especificaciones técnicas

Tipo	2 vias / way
Frecuencia de corte	2.6 kHz
Potencia admisible (RMS)	500 w
Impedancia LF	8 ohms.
Impedancia HF	8 ohms.
Pendiente atenuación (alta/baja)	24 dB/oct.

Technical specifications

Type	2 vias / way
Crossover frequency	2.6 kHz
Power capacity (RMS)	500 w
Low frequency impedance	8 ohms.
High frequency impedance	8 ohms.
Attenuation slope (low/high)	24 dB/oct.

FILTRO PASIVO / FILTER



F130

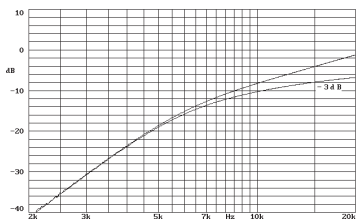
Especificaciones técnicas

Tipo	Paso alto / High-pass
Frecuencia de corte	3 kHz
Potencia admisible* (RMS)	300 w
Impedancia HF	8 ohms.
Pendiente atenuación (alta/baja)	18 dB/oct.
Atenuación HF	0, - 3 dB
Ecuilización	0 dB

Technical specifications

Type	Paso alto / High-pass
Crossover frequency	3 kHz
Power capacity (RMS)	300 w
High frequency impedance	8 ohms.
Attenuation slope (low/high)	18 dB/oct.
H.F. attenuation	0, - 3 dB
Equalization	0 dB

FILTRO PASIVO / FILTER



F102

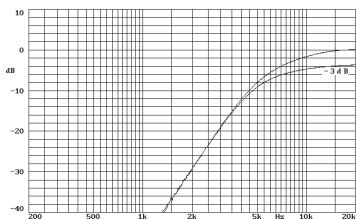
Especificaciones técnicas

Tipo	Paso alto / High-pass
Frecuencia de corte	Crossover frequency
Potencia admisible* (RMS)	Power capacity (RMS)
Impedancia HF	High frequency impedance
Pendiente atenuación (alta/baja)	Attenuation slope (low/high)
Atenuación HF	H.F. attenuation
Ecuación	Equalization

Technical specifications

Type	Paso alto / High-pass
Crossover frequency	8 kHz
Power capacity (RMS)	300 w
High frequency impedance	8 ohms.
Attenuation slope (low/high)	18 dB/oct.
H.F. attenuation	0, - 3 dB
Equalization	0 dB

FILTRO PASIVO / FILTER



F100

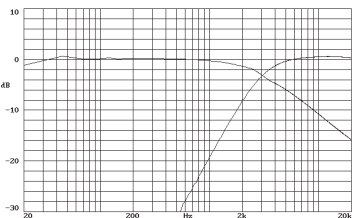
Especificaciones técnicas

Tipo	Paso alto / High-pass
Frecuencia de corte	Crossover frequency
Potencia admisible* (RMS)	Power capacity (RMS)
Impedancia HF	High frequency impedance
Pendiente atenuación (alta/baja)	Attenuation slope (low/high)
Atenuación HF	H.F. attenuation
Ecuación	Equalization

Technical specifications

Type	Paso alto / High-pass
Crossover frequency	6.3 kHz
Power capacity (RMS)	300 w
High frequency impedance	8 ohms.
Attenuation slope (low/high)	18 dB/oct.
H.F. attenuation	0, - 3 dB
Equalization	0 dB

FILTRO PASIVO / FILTER



2V HI-FI

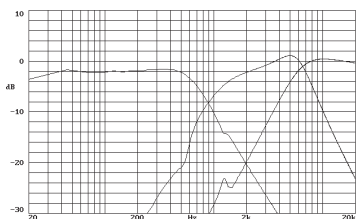
Especificaciones técnicas

Tipo	2 vías / way
Frecuencia de corte	Crossover frequency
Potencia admisible* (RMS)	Power capacity (RMS)
Impedancia LF	Low frequency impedance
Impedancia HF	High frequency impedance
Pendiente atenuación (alta/baja)	Attenuation slope (low/high)
Atenuación HF	H.F. attenuation
Ecuación	Equalization

Technical specifications

Type	2 vías / way
Crossover frequency	3 kHz
Power capacity (RMS)	300 w
Low frequency impedance	8 ohms.
High frequency impedance	8 ohms.
Attenuation slope (low/high)	6 - 12 dB/oct.
H.F. attenuation	0 dB
Equalization	0 dB

FILTRO PASIVO / FILTER



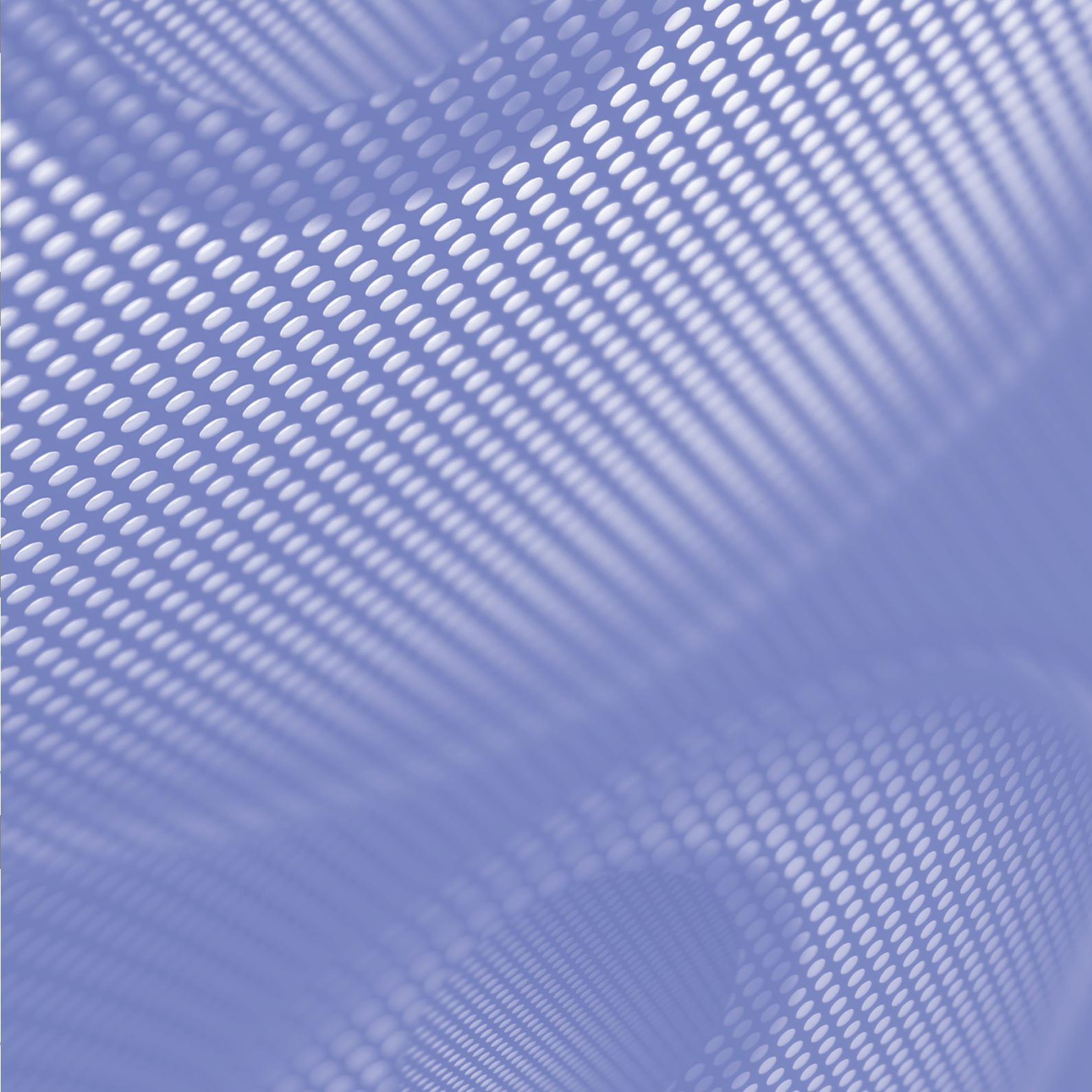
3V HI-FI

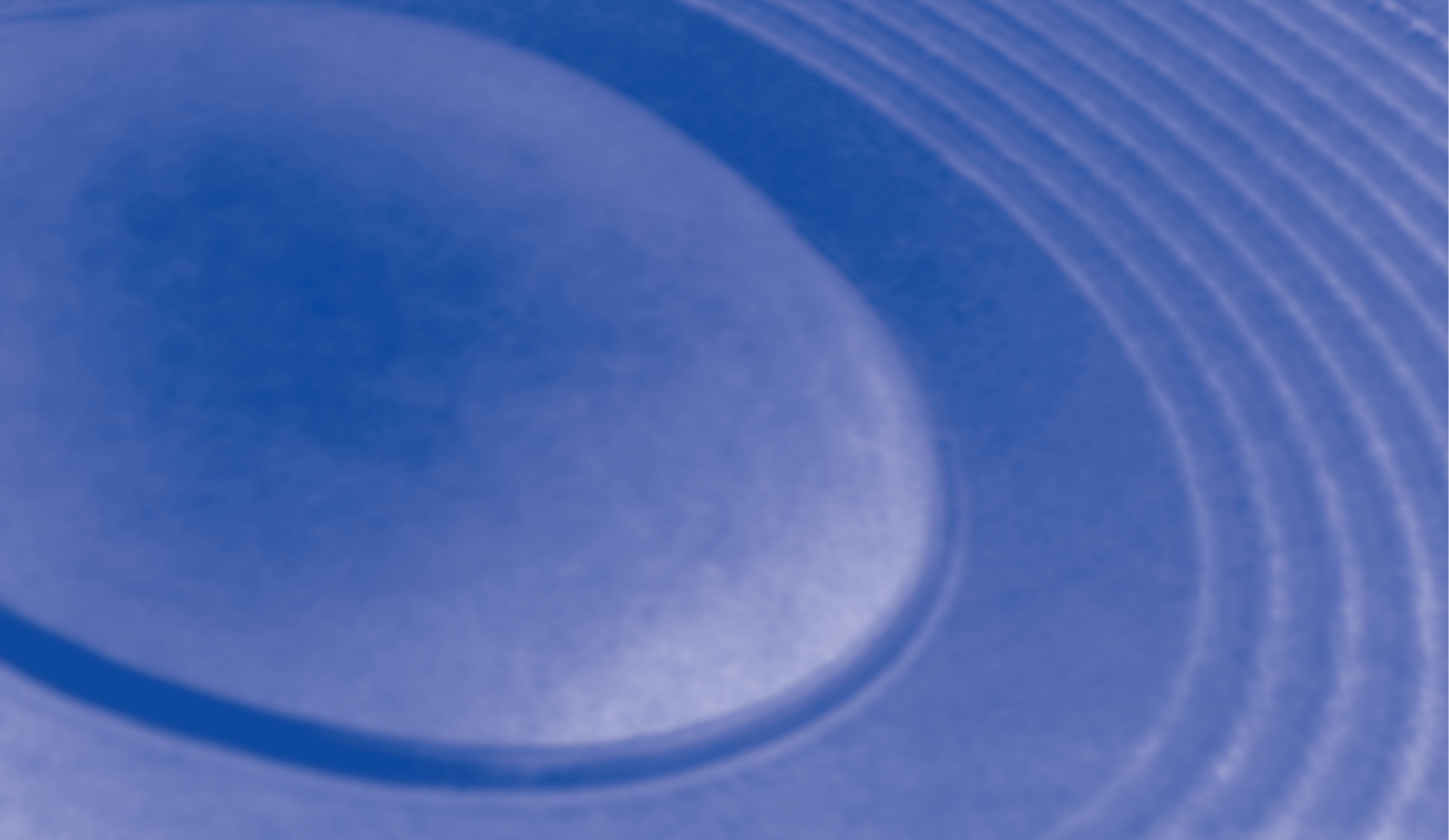
Especificaciones técnicas

Tipo	3 vías / way
Frecuencia de corte	Crossover frequency
Potencia admisible* (RMS)	Power capacity (RMS)
Impedancia LF	Low frequency impedance
Impedancia HF	High frequency impedance
Pendiente atenuación (alta/baja)	Attenuation slope (low/high)
Atenuación HF	H.F. attenuation
Ecuación	Equalization

Technical specifications

Type	3 vías / way
Crossover frequency	0.8 - 5 kHz
Power capacity (RMS)	300 w
Low frequency impedance	8 ohms.
High frequency impedance	8 ohms.
Attenuation slope (low/high)	12 - 12 - 6 dB/oct.
H.F. attenuation	0 dB
Equalization	0 dB





SJM

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PROFESSIONAL LOUDSPEAKERS

SM ALTAVOCES DE GRAVES

- Excelente relación calidad/precio
- Bobina de hilo de cobre con soporte de fibra de vidrio
- Carcasa de aluminio fundido a presión
- Respuesta extendida en frecuencias medias
- Diseñados para aplicaciones de graves de alta potencia

SM MOTORES DE COMPRESION DE ALTA FRECUENCIA

- Excelente relación calidad/precio
- Disponibilidad de diferentes diámetros de garganta: 1", 1.4" y 2"
- Bobinas de hilo de aluminio con diámetro desde 1.75" a 2.84"
- Variedad de materiales de membrana: aluminio, poliéster y otras combinaciones (suspensión de poliéster con cúpula de titanio)
- Imanes de neodimio y de ferrita

SM TWEETERS DE CÚPULA DE ALTO RENDIMIENTO

- Excelente relación calidad/precio
- Alta sensibilidad: 101 dB
- Bobina de 1" de hilo de aluminio con soporte de poliamida
- Imanes de neodimio
- Baja distorsión armónica
- Diseñado para una reproducción exigente de las altas frecuencias

SM LOW FREQUENCY DRIVERS

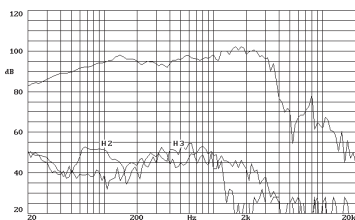
- Excellent performance/price ratio
- Copper voice coil with polyamide fiber glass former
- Die cast aluminium basket
- Extended response in the medium frequency range
- Designed for high power woofer applications

SM HIGH FREQUENCY COMPRESSION DRIVERS

- Excellent performance/price ratio
- Different throat diameters available: 1", 1.4" and 2"
- Edgewound aluminium voice coils ranging from 1.75" to 2.84" diameter
- Variety of diaphragm materials: aluminium, polyester and hybrid combinations (polyester surround with titanium dome)
- Neodymium and ceramic magnets

SM HIGH EFFICIENCY DOME TWEETERS

- Excellent performance/price ratio
- High sensitivity: 101 dB
- 1" aluminium voice coil with polyamide former
- Neodymium magnet
- Low harmonic distortion
- Designed for demanding quality high frequency reproduction



Nota: respuesta de frecuencia medida en el eje con el altavoz fijado en panel infinito en el interior de cámara anecoica, 1w @ 1m.

Note: on axis frequency response measured with loudspeaker standing on infinite baffle in anechoic chamber, 1w @ 1m.

SM118/N

Especificaciones técnicas

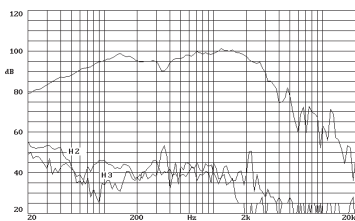
Diámetro nominal	Nominal diameter	460 mm. 18 in.
Impedancia nominal	Rated impedance	8 ohms.
Impedancia mínima	Minimum impedance	7.4 ohms.
Potencia admisible*	Power capacity*	400 w AES
Potencia programa	Program power	800 w
Sensibilidad	Sensitivity	97 dB 2.83 v @ 1m @ 2π
Rango de frecuencias	Frequency range	30 - 3000 Hz
Volumen de caja recom.	Recom. enclosure vol.	60 / 150 l 2.12 / 5.3 ft. ³
Diámetro de bobina	Voice coil diameter	77 mm. 3 in.
Peso conjunto magnético	Magnetic assembly weight	5 kg. 11 lb.
Factor BL	BL factor	18.3 N / A
Masa móvil	Moving mass	0.123 kg.
Altura bobinado	Voice coil length	18 mm.
Anchura entrehierro	Air gap height	7 mm.
Desplazamiento máximo	X damage (peak to peak)	30 mm.

Technical specifications

Parámetros Thiele-Small**

Fs	Resonant frequency, fs	36 Hz
Re	D.C. Voice coil resistance, Re	6.4 ohms.
Qms	Mechanical Quality Factor, Qms	6.83
Qes	Electrical Quality Factor, Qes	0.53
Qts	Total Quality Factor, Qts	0.49
Vas	Equivalent Air Volume to Cms, Vas	300 l
Cms	Mechanical Compliance, Cms	161 μm / N
Rms	Mechanical Resistance, Rms	4.1 kg / s
ηo (%)	Efficiency, ηo (%)	2.5
Sd	Effective Surface Area, Sd	0.1150 m ²
Xmax	Maximum Displacement, Xmax	5.5 mm.
Vd	Displacement Volume, Vd	630 cm ³
Le @ 1 kHz	Voice Coil Inductance, Le @ 1 kHz	1.1 mH

Thiele-Small parameters**



Nota: respuesta de frecuencia medida en el eje con el altavoz fijado en panel infinito en el interior de cámara anecoica, 1w @ 1m.

Note: on axis frequency response measured with loudspeaker standing on infinite baffle in anechoic chamber, 1w @ 1m.

SM115/N

Especificaciones técnicas

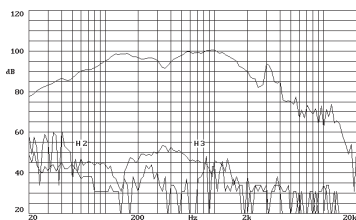
Diámetro nominal	Nominal diameter	380 mm. 15 in.
Impedancia nominal	Rated impedance	8 ohms.
Impedancia mínima	Minimum impedance	7.4 ohms.
Potencia admisible*	Power capacity*	400 w AES
Potencia programa	Program power	800 w
Sensibilidad	Sensitivity	98 dB 2.83 v @ 1m @ 2π
Rango de frecuencias	Frequency range	30 - 3000 Hz
Volumen de caja recom.	Recom. enclosure vol.	60 / 150 l 2,1 / 5,25 ft. ³
Diámetro de bobina	Voice coil diameter	77 mm. 3 in.
Peso conjunto magnético	Magnetic assembly weight	5 kg. 11 lb.
Factor BL	BL factor	17 N / A
Masa móvil	Moving mass	0.077 kg.
Altura bobinado	Voice coil length	18 mm.
Anchura entrehierro	Air gap height	7 mm.
Desplazamiento máximo	X damage (peak to peak)	30 mm.

Technical specifications

Parámetros Thiele-Small**

Fs	Resonant frequency, fs	29 Hz
Re	D.C. Voice coil resistance, Re	6.5 ohms.
Qms	Mechanical Quality Factor, Qms	10.1
Qes	Electrical Quality Factor, Qes	0.3
Qts	Total Quality Factor, Qts	0.31
Vas	Equivalent Air Volume to Cms, Vas	430 l
Cms	Mechanical Compliance, Cms	397 μm / N
Rms	Mechanical Resistance, Rms	1.4 kg / s
ηo (%)	Efficiency, ηo (%)	3.2
Sd	Effective Surface Area, Sd	0.0880 m ²
Xmax	Maximum Displacement, Xmax	5.5 mm.
Vd	Displacement Volume, Vd	484 cm ³
Le @ 1 kHz	Voice Coil Inductance, Le @ 1 kHz	1.1 mH

Thiele-Small parameters**



Nota: respuesta de frecuencia medida en el eje con el altavoz fijado en panel infinito en el interior de cámara anecoica, 1w @ 1m.

Note: on axis frequency response measured with loudspeaker standing on infinite baffle in anechoic chamber, 1w @ 1m.

SM115/K

Especificaciones técnicas

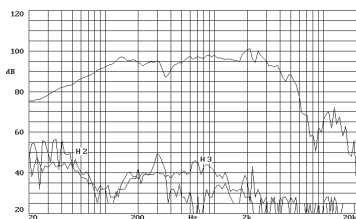
Diámetro nominal	Nominal diameter	380 mm. 15 in.
Impedancia nominal	Rated impedance	8 ohms.
Impedancia mínima	Minimum impedance	6.5 ohms.
Potencia admisible*	Power capacity*	500 w AES
Potencia programa	Program power	1000 w
Sensibilidad	Sensitivity	98 dB 2.83v @ 1m @ 2π
Rango de frecuencias	Frequency range	25 - 2000 Hz
Volumen de caja recom.	Recom. enclosure vol.	60 / 150 l 2.12 / 5.3 ft. ³
Diámetro de bobina	Voice coil diameter	100 mm. 4 in.
Peso conjunto magnético	Magnetic assembly weight	8.8 kg. 19.4 lb.
Factor BL	BL factor	20.5 N / A
Masa móvil	Moving mass	0.106 kg.
Altura bobinado	Voice coil length	21 mm.
Anchura entrehierro	Air gap height	9 mm.
Desplazamiento máximo	X damage (peak to peak)	30 mm.

Technical specifications

Parámetros Thiele-Small**

Fs	Resonant frequency, fs	27 Hz
Re	D.C. Voice coil resistance, Re	5.8 ohms.
Qms	Mechanical Quality Factor, Qms	9.01
Qes	Electrical Quality Factor, Qes	0.26
Qts	Total Quality Factor, Qts	0.25
Vas	Equivalent Air Volume to Cms, Vas	345 l
Cms	Mechanical Compliance, Cms	320 μm / N
Rms	Mechanical Resistance, Rms	2.1 kg / s
η ₀ (%)	Efficiency, η ₀ (%)	2.5
Sd	Effective Surface Area, Sd	0.0880 m ²
Xmax	Maximum Displacement, Xmax	7.5 mm.
Vd	Displacement Volume, Vd	660 cm ³
Le @ 1 kHz	Voice Coil Inductance, Le @ 1 kHz	1.2 mH

Thiele-Small parameters**



Nota: respuesta de frecuencia medida en el eje con el altavoz fijado en panel infinito en el interior de cámara anecoica, 1w @ 1m.

Note: on axis frequency response measured with loudspeaker standing on infinite baffle in anechoic chamber, 1w @ 1m.

SM112/N

Especificaciones técnicas

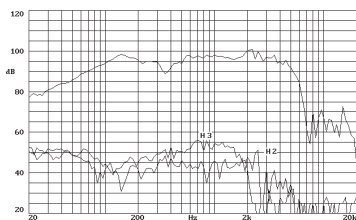
Diámetro nominal	Nominal diameter	300 mm. 12 in.
Impedancia nominal	Rated impedance	8 ohms.
Impedancia mínima	Minimum impedance	7.4 ohms.
Potencia admisible*	Power capacity*	400 w AES
Potencia programa	Program power	800 w
Sensibilidad	Sensitivity	97 dB 2.83 v @ 1m @ 2π
Rango de frecuencias	Frequency range	35 - 4000 Hz
Volumen de caja recom.	Recom. enclosure vol.	30 / 100 l 1.06 / 3.53 ft. ³
Diámetro de bobina	Voice coil diameter	77 mm. 3 in.
Peso conjunto magnético	Magnetic assembly weight	4.9 kg. 10.8 lb.
Factor BL	BL factor	17.2 N / A
Masa móvil	Moving mass	0.052 kg.
Altura bobinado	Voice coil length	18 mm.
Anchura entrehierro	Air gap height	7 mm.
Desplazamiento máximo	X damage (peak to peak)	30 mm.

Technical specifications

Parámetros Thiele-Small**

Fs	Resonant frequency, fs	38 Hz
Re	D.C. Voice coil resistance, Re	6.5 ohms.
Qms	Mechanical Quality Factor, Qms	7.2
Qes	Electrical Quality Factor, Qes	0.28
Qts	Total Quality Factor, Qts	0.27
Vas	Equivalent Air Volume to Cms, Vas	138 l
Cms	Mechanical Compliance, Cms	327 μm / N
Rms	Mechanical Resistance, Rms	1.8 kg / s
η ₀ (%)	Efficiency, η ₀ (%)	2.6
Sd	Effective Surface Area, Sd	0.0550 m ²
Xmax	Maximum Displacement, Xmax	5.5 mm.
Vd	Displacement Volume, Vd	300 cm ³
Le @ 1 kHz	Voice Coil Inductance, Le @ 1 kHz	1.1 mH

Thiele-Small parameters**



Nota: respuesta de frecuencia medida en el eje con el altavoz fijado en panel infinito en el interior de cámara anecoica, 1w @ 1m.

Note: on axis frequency response measured with loudspeaker standing on infinite baffle in anechoic chamber, 1w @ 1m.

SM212

Especificaciones técnicas

Diámetro nominal	Nominal diameter	300 mm. 12 in.
Impedancia nominal	Rated impedance	8 ohms.
Impedancia mínima	Minimum impedance	6.8 ohms.
Potencia admisible*	Power capacity*	350 w AES
Potencia programa	Program power	700 w
Sensibilidad	Sensitivity	98 dB 2.83 v @ 1m @ 2π
Rango de frecuencias	Frequency range	45 - 6000 Hz
Volumen de caja recom.	Recom. enclosure vol.	30 / 100 l 1.06 / 3.53 ft. ³
Diámetro de bobina	Voice coil diameter	62.4 mm. 2.5 in.
Peso conjunto magnético	Magnetic assembly weight	3.8 kg. 8.38 lb.
Factor BL	BL factor	12.8 N / A
Masa móvil	Moving mass	0.044 kg.
Altura bobinado	Voice coil length	20 mm.
Anchura entrehierro	Air gap height	7 mm.
Desplazamiento máximo	X damage (peak to peak)	27 mm.

Parámetros Thiele-Small**

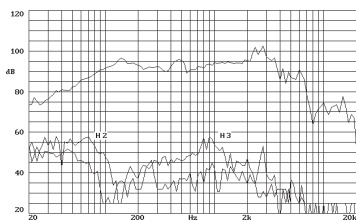
Fs	Resonant frequency, fs	40 Hz
Re	D.C. Voice coil resistance, Re	5.8 ohms.
Qms	Mechanical Quality Factor, Qms	5.6
Qes	Electrical Quality Factor, Qes	0.4
Qts	Total Quality Factor, Qts	0.38
Vas	Equivalent Air Volume to Cms, Vas	150 l
Cms	Mechanical Compliance, Cms	350 μm / N
Rms	Mechanical Resistance, Rms	1.8 kg / s
ηo (%)	Efficiency, ηo (%)	2.3
Sd	Effective Surface Area, Sd	0.0550 m ²
Xmax	Maximum Displacement, Xmax	7 mm.
Vd	Displacement Volume, Vd	382 cm ³
Le @ 1 kHz	Voice Coil Inductance, Le @ 1 kHz	1.2 mH

Technical specifications

Nominal diameter	300 mm. 12 in.
Rated impedance	8 ohms.
Minimum impedance	6.8 ohms.
Power capacity*	350 w AES
Program power	700 w
Sensitivity	98 dB 2.83 v @ 1m @ 2π
Frequency range	45 - 6000 Hz
Recom. enclosure vol.	30 / 100 l 1.06 / 3.53 ft. ³
Voice coil diameter	62.4 mm. 2.5 in.
Magnetic assembly weight	3.8 kg. 8.38 lb.
BL factor	12.8 N / A
Moving mass	0.044 kg.
Voice coil length	20 mm.
Air gap height	7 mm.
X damage (peak to peak)	27 mm.

Thiele-Small parameters**

Resonant frequency, fs	40 Hz
D.C. Voice coil resistance, Re	5.8 ohms.
Mechanical Quality Factor, Qms	5.6
Electrical Quality Factor, Qes	0.4
Total Quality Factor, Qts	0.38
Equivalent Air Volume to Cms, Vas	150 l
Mechanical Compliance, Cms	350 μm / N
Mechanical Resistance, Rms	1.8 kg / s
Efficiency, ηo (%)	2.3
Effective Surface Area, Sd	0.0550 m ²
Maximum Displacement, Xmax	7 mm.
Displacement Volume, Vd	382 cm ³
Voice Coil Inductance, Le @ 1 kHz	1.2 mH



Nota: respuesta de frecuencia medida en el eje con el altavoz fijado en panel infinito en el interior de cámara anecoica, 1w @ 1m.

Note: on axis frequency response measured with loudspeaker standing on infinite baffle in anechoic chamber, 1w @ 1m.

SM110/N

Especificaciones técnicas

Diámetro nominal	Nominal diameter	250 mm. 10 in.
Impedancia nominal	Rated impedance	8 ohms.
Impedancia mínima	Minimum impedance	7.2 ohms.
Potencia admisible*	Power capacity*	200 w AES
Potencia programa	Program power	400 w
Sensibilidad	Sensitivity	95 dB 2.83 v @ 1m @ 2π
Rango de frecuencias	Frequency range	45 - 6500 Hz
Volumen de caja recom.	Recom. enclosure vol.	20 / 50 l 0.71 / 1.77 ft. ³
Diámetro de bobina	Voice coil diameter	51.7 mm. 2 in.
Peso conjunto magnético	Magnetic assembly weight	2.9 kg. 6.39 lb.
Factor BL	BL factor	13.2 N / A
Masa móvil	Moving mass	0.038 kg.
Altura bobinado	Voice coil length	15 mm.
Anchura entrehierro	Air gap height	7 mm.
Desplazamiento máximo	X damage (peak to peak)	28 mm.

Technical specifications

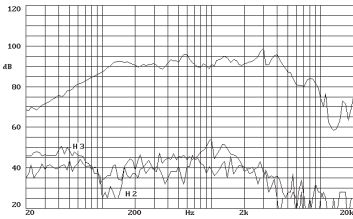
Nominal diameter	250 mm. 10 in.
Rated impedance	8 ohms.
Minimum impedance	7.2 ohms.
Power capacity*	200 w AES
Program power	400 w
Sensitivity	95 dB 2.83 v @ 1m @ 2π
Frequency range	45 - 6500 Hz
Recom. enclosure vol.	20 / 50 l 0.71 / 1.77 ft. ³
Voice coil diameter	51.7 mm. 2 in.
Magnetic assembly weight	2.9 kg. 6.39 lb.
BL factor	13.2 N / A
Moving mass	0.038 kg.
Voice coil length	15 mm.
Air gap height	7 mm.
X damage (peak to peak)	28 mm.

Parámetros Thiele-Small**

Fs	Resonant frequency, fs	43 Hz
Re	D.C. Voice coil resistance, Re	6.2 ohms.
Qms	Mechanical Quality Factor, Qms	7.88
Qes	Electrical Quality Factor, Qes	0.37
Qts	Total Quality Factor, Qts	0.35
Vas	Equivalent Air Volume to Cms, Vas	65 l
Cms	Mechanical Compliance, Cms	368 μm / N
Rms	Mechanical Resistance, Rms	1.3 kg / s
ηo (%)	Efficiency, ηo (%)	1.4
Sd	Effective Surface Area, Sd	0.0355 m ²
Xmax	Maximum Displacement, Xmax	4 mm.
Vd	Displacement Volume, Vd	141 cm ³
Le @ 1 kHz	Voice Coil Inductance, Le @ 1 kHz	1.7 mH

Thiele-Small parameters**

Resonant frequency, fs	43 Hz
D.C. Voice coil resistance, Re	6.2 ohms.
Mechanical Quality Factor, Qms	7.88
Electrical Quality Factor, Qes	0.37
Total Quality Factor, Qts	0.35
Equivalent Air Volume to Cms, Vas	65 l
Mechanical Compliance, Cms	368 μm / N
Mechanical Resistance, Rms	1.3 kg / s
Efficiency, ηo (%)	1.4
Effective Surface Area, Sd	0.0355 m ²
Maximum Displacement, Xmax	4 mm.
Displacement Volume, Vd	141 cm ³
Voice Coil Inductance, Le @ 1 kHz	1.7 mH



Nota: respuesta de frecuencia medida en el eje con el altavoz fijado en panel infinito en el interior de cámara anecoica, 1w @ 1m.

Note: on axis frequency response measured with loudspeaker standing on infinite baffle in anechoic chamber, 1w @ 1m.

SM108

Especificaciones técnicas

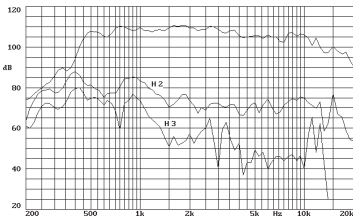
Diámetro nominal	Nominal diameter	200 mm. 8 in.
Impedancia nominal	Rated impedance	8 ohms.
Impedancia mínima	Minimum impedance	7.6 ohms.
Potencia admisible*	Power capacity*	150 w AES
Potencia programa	Program power	300 w
Sensibilidad	Sensitivity	95 dB 2.83 v @ 1m @ 2rt
Rango de frecuencias	Frequency range	65 - 6000 Hz
Volumen de caja recom.	Recom. enclosure vol.	10 / 30 l 0.35 / 1.06 ft. ³
Diámetro de bobina	Voice coil diameter	51.7 mm. 2 in.
Peso conjunto magnético	Magnetic assembly weight	2.8 kg. 6.17 lb.
Factor BL	BL factor	13 N / A
Masa móvil	Moving mass	0.024 kg.
Altura bobinado	Voice coil length	15 mm.
Anchura entrehierro	Air gap height	7 mm.
Desplazamiento máximo	X damage (peak to peak)	22 mm.

Technical specifications

Parámetros Thiele-Small**

Fs	Resonant frequency, fs	69 Hz
Re	D.C. Voice coil resistance, Re	6.3 ohms.
Qms	Mechanical Quality Factor, Qms	7.01
Qes	Electrical Quality Factor, Qes	0.39
Qts	Total Quality Factor, Qts	0.37
Vas	Equivalent Air Volume to Cms, Vas	16 l
Cms	Mechanical Compliance, Cms	225 μm / N
Rms	Mechanical Resistance, Rms	1.5 kg / s
ηo (%)	Efficiency, ηo (%)	1.3
Sd	Effective Surface Area, Sd	0.0220 m ²
Xmax	Maximum Displacement, Xmax	4 mm.
Vd	Displacement Volume, Vd	87 cm ³
Le @ 1 kHz	Voice Coil Inductance, Le @ 1 kHz	1.5 mH

Thiele-Small parameters**



Nota: respuesta de frecuencia medida en el eje acoplado a una bocina TD 400 en el interior de cámara anecoica, 1w @ 1m.

Note: on axis frequency response measured coupled to TD400 horn in anechoic chamber, 1w @ 1m.

SMC60

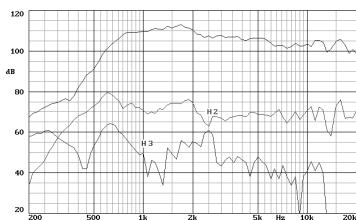
Especificaciones técnicas

Diámetro de garganta	Throat diameter	49 mm. 2 in.
Impedancia nominal	Rated impedance	8 ohms.
Impedancia mínima	Minimum impedance	6.9 ohms. @ 3.3 kHz
Resistencia eléctrica	D.C. Resistance	5.5 ohms.
Potencia admisible*	Power capacity*	60 w AES por encima / above 0.8 kHz 80 w AES por encima / above 1.5 kHz
Potencia programa	Program power	120 w AES por encima / above 0.8 kHz 160 w AES por encima / above 1.5 kHz
Sensibilidad**	Sensitivity**	109 dB 1 w @ 1m acoplado a bocina / coupled to TD-460N horn
Rango de frecuencias	Frequency range	0.5 - 18 kHz
Frecuencia de corte recom.	Recom. crossover	0.8 kHz o mayor / or higher (12 dB/oct. min.)
Diámetro de bobina	Voice coil diameter	72.2 mm. 2.84 in.
Peso conjunto magnético	Magnetic assembly weight	4.1 kg. 9.02 lb.
Densidad de flujo	Flux density	1.55 T
Factor BL	BL factor	8.8 N/A
Material de la membrana	Diaphragm material	Titanium dome with polyester surround
Cúpula de titanio con suspensión de poliéster		

Características constructivas

Diámetro externo	Overall diameter	156 mm. 6.14 in.
Profundidad	Depth	75 mm. 2.95 in.
Montaje	Mounting	Four M6 threaded holes, 90° apart on 101.6 mm (4 in.) diameter circle. Mounting hardware is supplied.
4 agujeros roscados de M6 a 90°, con un diámetro entre ejes de 101.6 mm. (4 in.)		
Elementos de montaje y sujeción incluidos.		
Peso neto	Net weight	4.5 Kg. 9.9 lb.
Peso total	Shipping weight	5 Kg. 11 lb.

Mounting information



Nota: respuesta de frecuencia medida en el eje acoplado a una bocina TD 385 en el interior de cámara anecoica, 1w @ 1m.

Note: on axis frequency response measured coupled to TD385 horn in anechoic chamber, 1w @ 1m.

SMC65

Especificaciones técnicas

Diámetro de garganta
Impedancia nominal
Impedancia mínima
Resistencia eléctrica
Potencia admisible*

Potencia programa

Sensibilidad**

Rango de frecuencias

Frecuencia de corte recom.

Diámetro de bobina

Peso conjunto magnético

Densidad de flujo

Factor BL

Material de la membrana

Cúpula de titanio con suspensión de poliéster

Technical specifications

Throat diameter 36 mm. 1.4 in.
Rated impedance 8 ohms.
Minimum impedance 6.9 ohms. @ 3.3 kHz
D.C. Resistance 5.5 ohms.
Power capacity* 50 w AES por encima / above 800 Hz
70 w AES por encima / above 1.5 kHz

Program power 100 w por encima / above 800 Hz
140 w por encima / above 1.5 kHz

Sensitivity** 107 dB 1 w @ 1m
acoplado a bocina / coupled to TD-365 horn

Frequency range 0.7 - 18 kHz

Recom. crossover 0.8 kHz o mayor / or higher (12 dB/oct. min.)

Voice coil diameter 72.2 mm. 2.84 in.

Magnetic assembly weight 4.1 kg. 9.02 lb.

Flux density 1.55 T

BL factor 8.8 N/A

Diaphragm material

Titanium dome with mylar surround

Características constructivas

Diámetro externo

Profundidad

Montaje

4 agujeros roscados de M6 a 90°,
con un diámetro entre ejes de 101.6 mm. (4 in.)

Elementos de montaje y sujeción incluidos.

Peso neto

Peso total

Mounting information

Overall diameter 156 mm. 6.14 in.

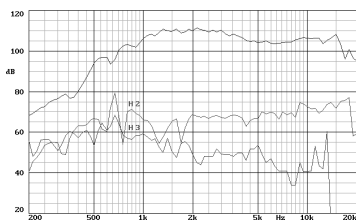
Depth 64 mm. 2.52 in.

Mounting

Four M6 threaded holes, 90° apart on
101.6 mm (4 in.) diameter circle.
Mounting hardware is supplied.

Net weight 4.2 Kg. 9.24 lb.

Shipping weight 4.7 Kg. 10.34 lb.



Nota: respuesta de frecuencia medida en el eje acoplado a una bocina TD 385 en el interior de cámara anecoica, 1w @ 1m.

Note: on axis frequency response measured coupled to TD385 horn in anechoic chamber, 1w @ 1m.

SMC65Nd

Especificaciones técnicas

Diámetro de garganta
Impedancia nominal
Impedancia mínima
Resistencia eléctrica
Potencia admisible*

Potencia programa

Sensibilidad**

Rango de frecuencias

Frecuencia de corte recom.

Diámetro de bobina

Peso conjunto magnético

Densidad de flujo

Factor BL

Material de la membrana

Cúpula de titanio con suspensión de poliéster

Technical specifications

Throat diameter 36 mm. 1.4 in.
Rated impedance 8 ohms.
Minimum impedance 7.2 ohms. @ 3 kHz
D.C. Resistance 5.5 ohms.
Power capacity* 50 w AES por encima / above 0.8 kHz
70 w AES por encima / above 1.5 kHz

Program power 100 w AES por encima / above 0.8 kHz
140 w AES por encima / above 1.5 kHz

Sensitivity** 108 dB 1 w @ 1m
acoplado a bocina / coupled to TD-385 horn

Frequency range 0.6 - 20 kHz

Recom. crossover 0.8 kHz o mayor / or higher (12 dB/oct. min.)

Voice coil diameter 72.2 mm. 2.84 in.

Magnetic assembly weight 2.1 kg. 4.62 lb.

Flux density 2 T

BL factor 11.36 N/A

Diaphragm material

Titanium dome with polyester surround

Características constructivas

Diámetro externo

Profundidad

Montaje

4 agujeros roscados de M6 a 90°,
con un diámetro entre ejes de 101.6 mm. (4 in.)

Elementos de montaje y sujeción incluidos.

Peso neto

Peso total

Mounting information

Overall diameter 123 mm. 4.84 in.

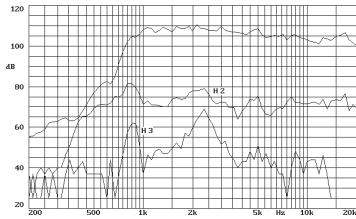
Depth 53.5 mm. 2.11 in.

Mounting

Four M6 threaded holes, 90° apart on
101.6 mm (4 in.) diameter circle.
Mounting hardware is supplied.

Net weight 2.2 Kg. 4.84 lb.

Shipping weight 2.7 Kg. 5.94 lb.



Nota: respuesta de frecuencia medida en el eje acoplado a una bocina TD 245 en el interior de cámara anecoica, 1w @ 1m.

Note: on axis frequency response measured coupled to TD245 horn in anechoic chamber, 1w @ 1m.

SMC1050/N

Especificaciones técnicas

Diámetro de garganta
Impedancia nominal
Impedancia mínima
Resistencia eléctrica
Potencia admisible*

Potencia programa

Sensibilidad**

Rango de frecuencias

Frecuencia de corte recom.

Diámetro de bobina

Peso conjunto magnético

Densidad de flujo

Factor BL

Material de la membrana

Technical specifications

Throat diameter	25 mm. 1 in.
Rated impedance	8 ohms.
Minimum impedance	5.3 ohms. @ 4.3 kHz
D.C. Resistance	5.6 ohms.
Power capacity*	40 w AES por encima / above 1.2 kHz 60 w AES por encima / above 2 kHz
Program power	80 w AES por encima / above 1.2 kHz 120 w AES por encima / above 2 kHz
Sensitivity**	108 dB 1 w @ 1m acoplado a bocina / coupled to TD-250 horn
Frequency range	0.8 - 18 kHz
Recom. crossover	1 kHz o mayor / or higher (12 dB/oct. min.)
Voice coil diameter	44.4 mm. 1.75 in.
Magnetic assembly weight	2.1 kg. 4.63 lb.
Flux density	1.8 T
BL factor	9.3 N/A
Diaphragm material	Poliéster / Polyester

Características constructivas

Diámetro externo

Profundidad

Montaje

3 agujeros roscados de M5 a 120°, con un diámetro entre ejes de 57 mm. (2.24 in.).

2 agujeros roscados de M5 a 180°, con un diámetro entre ejes de 76.2 mm. (3 in.).

Elementos de montaje y sujeción incluidos.

Peso neto

Peso total

Mounting information

Overall diameter

Depth

Mounting

Three M5 threaded holes, 120° apart on 57 mm. (2.24 in.) diameter circle.

Two M5 threaded holes, 180° apart on 76.2 mm. (3 in.) diameter circle.

Mounting hardware is supplied.

Net weight

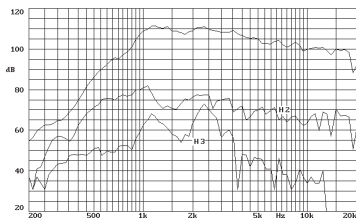
Shipping weight

120 mm. 4.72 in.

61 mm. 2.40 in.

2.2 Kg. 4.84 lb.

2.35 Kg. 5.17 lb.



Nota: respuesta de frecuencia medida en el eje acoplado a una bocina TD 250 en el interior de cámara anecoica, 1w @ 1m.

Note: on axis frequency response measured coupled to TD250 horn in anechoic chamber, 1w @ 1m.

SMC280/ST

Especificaciones técnicas

Diámetro de garganta
Impedancia nominal
Impedancia mínima
Resistencia eléctrica
Potencia admisible*
Potencia programa
Sensibilidad**

Rango de frecuencias

Frecuencia de corte recom.

Diámetro de bobina

Peso conjunto magnético

Densidad de flujo

Factor BL

Material de la membrana

Technical specifications

Throat diameter	25 mm. 1 in.
Rated impedance	8 ohms.
Minimum impedance	5.2 ohms. @ 4 kHz
D.C. Resistance	5.6 ohms.
Power capacity*	50 w AES por encima / above 1.5 kHz
Program power	100 w por encima / above 1.5 kHz
Sensitivity**	105 dB 1 w @ 1m acoplado a bocina / coupled to TD-245 horn
Frequency range	0.8 - 18 kHz
Recom. crossover	1.5 kHz o mayor / or higher (12 dB/oct. min.)
Voice coil diameter	44.4 mm. 1.75 in.
Magnetic assembly weight	1.2 kg. 2.64 lb.
Flux density	1.65 T
BL factor	8.5 N/A
Diaphragm material	Poliéster / Polyester

Características constructivas

Diámetro externo

Profundidad

Montaje

3 agujeros roscados de M5 a 120°, con un diámetro entre ejes de 57 mm. (2.24 in.).

2 agujeros roscados de M5 a 180°, con un diámetro entre ejes de 76.2 mm. (3 in.).

Elementos de montaje y sujeción incluidos.

Peso neto

Peso total

Mounting information

Overall diameter

Depth

Mounting

Three M5 threaded holes, 120° apart on 57 mm (2.24 in.) diameter circle.

Two M5 threaded holes, 180° apart on 76.2 mm. (3 in.) diameter circle.

Mounting hardware is supplied.

Net weight

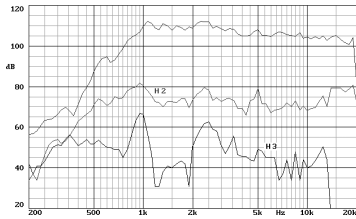
Shipping weight

102 mm. 4 in.

53 mm. 2.08 in.

1.3 Kg. 2.86 lb.

1.4 Kg. 3.1 lb.



Nota: respuesta de frecuencia medida en el eje acoplado a una bocina TD 250 en el interior de cámara anecoica, 1w @ 1m.

Note: on axis frequency response measured coupled to TD250 horn in anechoic chamber, 1W @ 1m.

SMC225Nd

Especificaciones técnicas

Diámetro de garganta	Throat diameter	25 mm. 1 in.
Impedancia nominal	Rated impedance	8 ohms.
Impedancia mínima	Minimum impedance	5.5 ohms. @ 4.5 kHz
Resistencia eléctrica	D.C. Resistance	5.6 ohms.
Potencia admisible*	Power capacity*	40 w AES por encima / above 1.5 kHz
Potencia programa	Program power	80 w por encima / above 1.5 kHz
Sensibilidad**	Sensitivity**	108 dB 1 w @ 1m acoplado a bocina / coupled to TD-250 horn
Rango de frecuencias	Frequency range	0.8 - 20 kHz
Frecuencia de corte recom.	Recom. crossover	1.5 kHz o mayor / or higher (12 dB/oct. min.)
Diámetro de bobina	Voice coil diameter	44.4 mm. 1.75 in.
Peso conjunto magnético	Magnetic assembly weight	0.6 kg. 1.32 lb.
Densidad de flujo	Flux density	1.8 T
Factor BL	BL factor	8 N/A
Material de la membrana	Diaphragm material	Poliéster / Polyester

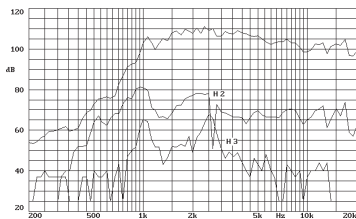
Características constructivas

Diámetro externo	Overall diameter	80 mm. 3.15 in.
Profundidad	Depth	57 mm. 2.24 in.
Montaje	Mounting	3 agujeros roscados de M4 a 120°, con un diámetro entre ejes de 57 mm. (2.24 in.). Mounting hardware is supplied.

Peso neto	Net weight	0.7 Kg. 1.54 lb.
Peso total	Shipping weight	0.8 Kg. 1.76 lb.

Mounting information

Diámetro externo	Overall diameter	80 mm. 3.15 in.
Profundidad	Depth	57 mm. 2.24 in.
Montaje	Mounting	Three M4 threaded holes, 120° apart on 57 mm (2.24 in.) diameter circle. Mounting hardware is supplied.



Nota: respuesta de frecuencia medida en el eje en cámara anecoica, 1w @ 1m.

Note: on axis frequency response measure in anechoic chamber, 1w @ 1m.

SMC8060

Especificaciones técnicas

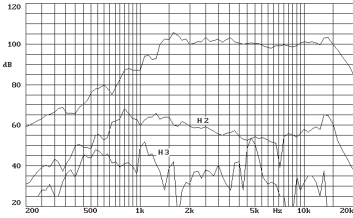
Impedancia nominal	Rated impedance	8 ohms.
Impedancia mínima	Minimum impedance	5.2 ohms. @ 4 kHz
Resistencia eléctrica	D.C. Resistance	5.6 ohms.
Potencia admisible*	Power capacity*	50 w AES above 1.5 kHz
Potencia programa	Program power	100 w above 1.5 kHz
Sensibilidad**	Sensitivity**	107 dB 1 w @ 1m
Rango de frecuencias	Frequency range	0.8 - 18 kHz
Frecuencia de corte recom.	Recom. crossover	1.5 kHz or higher, (12 dB/oct. min.)
Dispersión H x V	Dispersion H x V	80° x 60°
Diámetro de bobina	Voice coil diameter	44.4 mm. 1.75 in.
Peso conjunto magnético	Magnetic assembly weight	1.2 kg. 0.85 lb.
Densidad de flujo	Flux density	1.65 T
Factor BL	BL factor	8.5 N/A
Material de la membrana	Diaphragm material	Poliéster / Polyester

Características constructivas

Diámetro externo	Overall dimensions	140 x 136 mm. 5.51 x 5.35 in.
Profundidad	Depth	121 mm. 4.76 in.
Diámetro de calado	Baffle cutout dimensions	130 x 115 mm. 5.12 x 4.53 in.
Peso neto	Net weight	1.5 Kg. 3.3 lb.
Peso total	Shipping weight	1.7 Kg. 3.74 lb.

Mounting information

Diámetro externo	Overall dimensions	140 x 136 mm. 5.51 x 5.35 in.
Profundidad	Depth	121 mm. 4.76 in.
Diámetro de calado	Baffle cutout dimensions	130 x 115 mm. 5.12 x 4.53 in.
Peso neto	Net weight	1.5 Kg. 3.3 lb.
Peso total	Shipping weight	1.7 Kg. 3.74 lb.



Nota: respuesta de frecuencia medida en el eje en cámara anecoica, 1w @ 1m.

Note: on axis frequency response measure in anechoic chamber, 1w @ 1m.

SMC2012/N

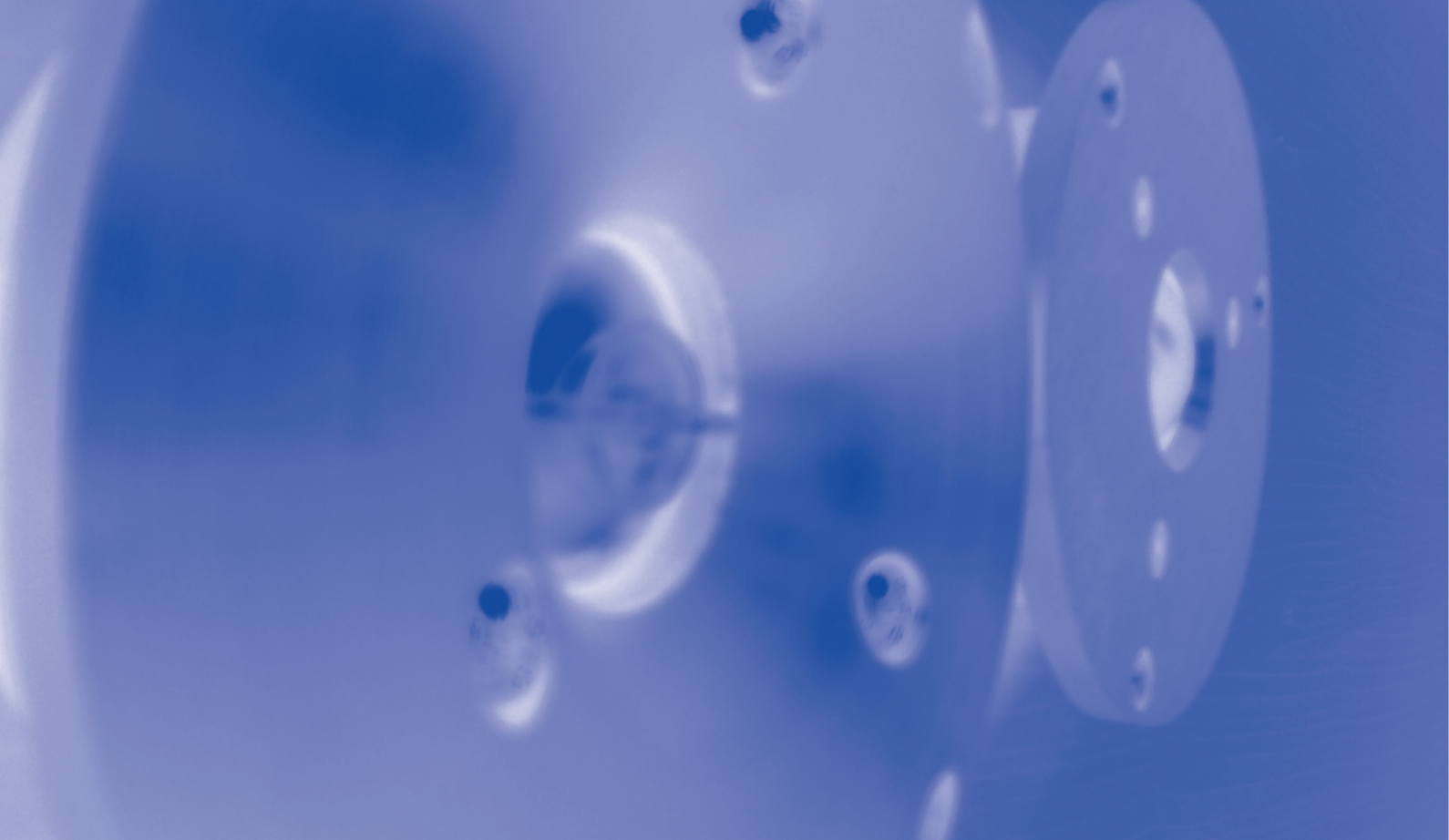
Especificaciones técnicas

Impedancia nominal	Rated impedance	8 ohms.
Impedancia mínima	Minimum impedance	7 ohms. @ 3.3 kHz
Resistencia eléctrica	D.C. Resistance	6 ohms.
Potencia admisible*	Power capacity*	15 w AES por encima / above 1.5 kHz
Potencia programa	Program power	30 w por encima / above 1.5 kHz
Sensibilidad**	Sensitivity**	101 dB 1 w @ 1m
Rango de frecuencias	Frequency range	1 - 20 kHz
Frecuencia de corte recom.	Recom. crossover	1.5 kHz o mayor / or higher, (12 dB/oct. min.)
Dispersión H x V	Dispersion H x V	50° x 35°
Diámetro de bobina	Voice coil diameter	25.8 mm. 1 in.
Peso conjunto magnético	Magnetic assembly weight	0.39 kg. 0.85 lb.
Densidad de flujo	Flux density	2 T
Factor BL	BL factor	5.6 N/A
Material de la membrana	Diaphragm material	Suproneyl

Características constructivas

Diámetro externo	Overall dimensions	115 x 91 mm. 4.53 x 3.58 in.
Profundidad	Depth	87.5 mm. 3.45 in.
Dimensiones del calado	Baffle cutout dimensions	85 x 62.5 mm. 3.34 x 2.46 in.
Peso neto	Net weight	0.5 Kg. 1.1 lb.
Peso total	Shipping weight	0.6 Kg. 1.32 lb.

Mounting information



studio

beyma *))*

PROFESSIONAL LOUDSPEAKERS

STUDIO ALTAVOCES DE GRAVES

- Gran Xmax que permite amplios desplazamientos de la bobina
- Baja distorsión armónica
- Bobina de hilo de cobre con soporte de fibra de vidrio
- Carcasa de aluminio fundido a presión
- Respuesta extendida en frecuencias medias
- Diseñados para aplicaciones de graves y subgraves en sistemas de hi-fi y home cinema

STUDIO VIBRADORES DE BAJA FRECUENCIA

- Fuerza de pico extraordinaria (196 N)
- Potencia admisible alta (50 w AES)
- Bobina de 3" de hilo de cobre
- Vibrador de baja frecuencia diseñado especialmente para aplicaciones de home cinema

STUDIO ALTAVOCES DE GRAVES-MEDIOS

- Respuesta en frecuencia amplia y extremadamente lineal
- Baja distorsión armónica
- Bobina de hilo de cobre con soporte de fibra de vidrio
- Diseñados para la reproducción de frecuencias graves y medias en sistemas de hi-fi y home cinema

STUDIO ALTAVOCES DE AGUDOS

- Respuesta en frecuencia amplia y extremadamente lineal
- Baja distorsión armónica
- Diversidad de materiales de membrana: tela plastificada, aluminio y supronyl
- Tapa frontal de aluminio fundido a presión
- Conjuntos móviles de fácil sustitución in situ sin necesidad de soldar
- Diseñados para la reproducción de frecuencias medias y altas en sistemas de hi-fi y home cinema

STUDIO LOW FREQUENCY DRIVERS

- Large Xmax allowing long voice coil displacements
- Low harmonic distortion
- Copper voice coil with polyamide fiber glass former
- Die cast aluminium basket
- Extended response in the medium frequency range
- Designed for woofer/subwoofer hi-fi and home theater applications

STUDIO BASS SHAKERS

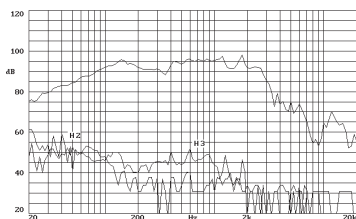
- Smashing peak force (196 N)
- High power handling (50 w AES)
- 3" copper voice coil
- Bass shaker specially designed for home theater applications

STUDIO LOW & MID FREQUENCY DRIVERS

- Extended and extremely linear frequency response
- Low harmonic distortion
- Copper voice coil with polyamide fiber glass former
- Designed for low & mid frequency reproduction on hi-fi and home theater applications

STUDIO HIGH FREQUENCY DRIVERS

- Extended and extremely linear frequency response
- Low harmonic distortion
- Diversity of diaphragm materials: plasticised fabric, aluminium and supronyl
- Die cast aluminium front cover
- Field replaceable without soldering diaphragm assemblies
- Designed for mid & high frequency reproduction on hi-fi and home theater applications



Nota: respuesta de frecuencia medida en el eje con el altavoz fijado en panel infinito en el interior de cámara anecoica, 1w @ 1m.

Note: on axis frequency response measured with loudspeaker standing on infinite baffle in anechoic chamber, 1w @ 1m.

12B100/R

Especificaciones técnicas

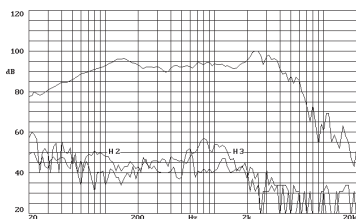
Diámetro nominal	Nominal diameter	300 mm. 12 in.
Impedancia nominal	Rated impedance	8 ohms.
Potencia admisible*	Power capacity*	150 w RMS
Potencia programa	Program power	300 w
Sensibilidad	Sensitivity	93.6 dB 2.83 v @ 1m @ 2π
Rango de frecuencias	Frequency range	25 - 4000 Hz
Volumen de caja recom.	Recom. enclosure vol.	40 / 90 l 1.4 / 3.15 ft. ³
Diámetro de bobina	Voice coil diameter	100 mm. 4 in.
Peso conjunto magnético	Magnetic assembly weight	6.4 kg. 14.08 lb.
Factor BL	BL factor	17.2 N / A
Masa móvil	Moving mass	0.077 kg.
Altura bobinado	Voice coil length	12 mm.
Anchura entrehierro	Air gap height	7 mm.
Desplazamiento máximo	X damage (peak to peak)	28 mm.

Technical specifications

Parámetros Thiele-Small**

Fs	Resonant frequency, fs	29 Hz
Re	D.C. Voice coil resistance, Re	6.6 ohms.
Qms	Mechanical Quality Factor, Qms	6.49
Qes	Electrical Quality Factor, Qes	0.31
Qts	Total Quality Factor, Qts	0.30
Vas	Equivalent Air Volume to Cms, Vas	154 l
Cms	Mechanical Compliance, Cms	392 μm / N
Rms	Mechanical Resistance, Rms	2.16 kg / s
ηo (%)	Efficiency, ηo (%)	1.2
Sd	Effective Surface Area, Sd	0.0053 m ²
Xmax	Maximum Displacement, Xmax	3 mm.
Vd	Displacement Volume, Vd	160 cm ³
Le @ 1 kHz	Voice Coil Inductance, Le @ 1 kHz	1.3 mH

Thiele-Small parameters**



Nota: respuesta de frecuencia medida en el eje con el altavoz fijado en panel infinito en el interior de cámara anecoica, 1w @ 1m.

Note: on axis frequency response measured with loudspeaker standing on infinite baffle in anechoic chamber, 1w @ 1m.

12BR70

Especificaciones técnicas

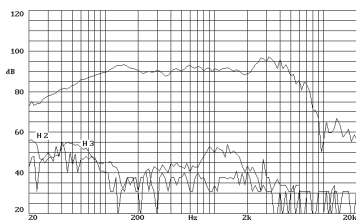
Diámetro nominal	Nominal diameter	300 mm. 12 in.
Impedancia nominal	Rated impedance	8 ohms.
Potencia admisible*	Power capacity*	125 w RMS
Potencia programa	Program power	250 w
Sensibilidad	Sensitivity	94.5 dB 2.83 v @ 1m @ 2π
Rango de frecuencias	Frequency range	25 - 4000 kHz
Volumen de caja recom.	Recom. enclosure vol.	50 - 120 l 1.77 / 4.24 ft. ³
Diámetro de bobina	Voice coil diameter	52 mm. 2 in.
Peso conjunto magnético	Magnetic assembly weight	2.75 kg. 6.1 lb.
Factor BL	BL factor	13.3 N / A
Masa móvil	Moving mass	0.065 kg.
Altura bobinado	Voice coil length	19 mm.
Anchura entrehierro	Air gap height	7 mm.
Desplazamiento máximo	X damage (peak to peak)	25 mm.

Technical specifications

Parámetros Thiele-Small**

Fs	Resonant frequency, fs	35 Hz
Re	D.C. Voice coil resistance, Re	5.6 ohms.
Qms	Mechanical Quality Factor, Qms	1.85
Qes	Electrical Quality Factor, Qes	0.44
Qts	Total Quality Factor, Qts	0.36
Vas	Equivalent Air Volume to Cms, Vas	135 l
Cms	Mechanical Compliance, Cms	330 μm / N
Rms	Mechanical Resistance, Rms	7 kg / s
ηo (%)	Efficiency, ηo (%)	1.2
Sd	Effective Surface Area, Sd	0.054 m ²
Xmax	Maximum Displacement, Xmax	6 mm.
Vd	Displacement Volume, Vd	340 cm ³
Le @ 1 kHz	Voice Coil Inductance, Le @ 1 kHz	1 mH

Thiele-Small parameters**



Nota: respuesta de frecuencia medida en el eje con el altavoz fijado en panel infinito en el interior de cámara anecoica, 1w @ 1m.

Note: on axis frequency response measured with loudspeaker standing on infinite baffle in anechoic chamber, 1w @ 1m.

10BR60

Especificaciones técnicas

Diámetro nominal	Nominal diameter
Impedancia nominal	Rated impedance
Potencia admisible*	Power capacity*
Potencia programa	Program power
Sensibilidad	Sensitivity
Rango de frecuencias	Frequency range
Volumen de caja recom.	Recom. enclosure vol.
Diámetro de bobina	Voice coil diameter
Peso conjunto magnético	Magnetic assembly weight
Factor BL	BL factor
Masa móvil	Moving mass
Altura bobinado	Voice coil length
Anchura entrehierro	Air gap height
Desplazamiento máximo	X damage (peak to peak)

Technical specifications

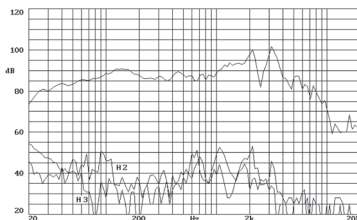
Nominal diameter	250 mm. 10 in.
Rated impedance	8 ohms.
Power capacity*	100 w RMS
Program power	200 w
Sensitivity	91.5 dB 2.83 v @ 1m @ 2rt
Frequency range	30 - 5000 kHz
Recom. enclosure vol.	30 - 100 l 1.06 / 3.53 ft. ³
Voice coil diameter	52 mm. 2 in.
Magnetic assembly weight	2.75 kg. 6.1 lb.
BL factor	12.4 N / A
Moving mass	0.050 kg.
Voice coil length	16 mm.
Air gap height	7 mm.
X damage (peak to peak)	30 mm.

Parámetros Thiele-Small**

Fs	Resonant frequency, fs
Re	D.C. Voice coil resistance, Re
Qms	Mechanical Quality Factor, Qms
Qes	Electrical Quality Factor, Qes
Qts	Total Quality Factor, Qts
Vas	Equivalent Air Volume to Cms, Vas
Cms	Mechanical Compliance, Cms
Rms	Mechanical Resistance, Rms
ηo (%)	Efficiency, ηo (%)
Sd	Effective Surface Area, Sd
Xmax	Maximum Displacement, Xmax
Vd	Displacement Volume, Vd
Le @ 1 kHz	Voice Coil Inductance, Le @ 1 kHz

Thiele-Small parameters**

Resonant frequency, fs	42 Hz
D.C. Voice coil resistance, Re	6.5 ohms.
Mechanical Quality Factor, Qms	1.9
Electrical Quality Factor, Qes	0.62
Total Quality Factor, Qts	0.47
Equivalent Air Volume to Cms, Vas	47 l
Mechanical Compliance, Cms	230 μm / N
Mechanical Resistance, Rms	5.1 kg / s
Efficiency, ηo (%)	0.75
Effective Surface Area, Sd	0.038 m ²
Maximum Displacement, Xmax	6 mm.
Displacement Volume, Vd	240 cm ³
Voice Coil Inductance, Le @ 1 kHz	1.1 mH



Nota: respuesta de frecuencia medida en el eje con el altavoz fijado en panel infinito en el interior de cámara anecoica, 1w @ 1m.

Note: on axis frequency response measured with loudspeaker standing on infinite baffle in anechoic chamber, 1w @ 1m.

8BR40/N

Especificaciones técnicas

Diámetro nominal	Nominal diameter
Impedancia nominal	Rated impedance
Impedancia mínima	Minimum impedance
Potencia admisible*	Power capacity*
Potencia programa	Program power
Sensibilidad	Sensitivity
Rango de frecuencias	Frequency range
Volumen de caja recom.	Recom. enclosure vol.
Diámetro de bobina	Voice coil diameter
Peso conjunto magnético	Magnetic assembly weight
Factor BL	BL factor
Masa móvil	Moving mass
Altura bobinado	Voice coil length
Anchura entrehierro	Air gap height
Desplazamiento máximo	X damage (peak to peak)

Technical specifications

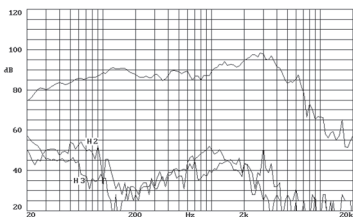
Nominal diameter	200 mm. 8 in.
Rated impedance	8 ohms.
Minimum impedance	6.8 ohms.
Power capacity*	50 w RMS
Program power	100 w
Sensitivity	90 dB 2.83 v @ 1m @ 2rt
Frequency range	35 - 6000 kHz
Recom. enclosure vol.	20 - 60 l 0.7 / 2.12 ft. ³
Voice coil diameter	25.8 mm. 1 in.
Magnetic assembly weight	1 kg. 2.2 lb.
BL factor	6.9 N / A
Moving mass	0.025 kg.
Voice coil length	16 mm.
Air gap height	6 mm.
X damage (peak to peak)	20 mm.

Parámetros Thiele-Small**

Fs	Resonant frequency, fs
Re	D.C. Voice coil resistance, Re
Qms	Mechanical Quality Factor, Qms
Qes	Electrical Quality Factor, Qes
Qts	Total Quality Factor, Qts
Vas	Equivalent Air Volume to Cms, Vas
Cms	Mechanical Compliance, Cms
Rms	Mechanical Resistance, Rms
ηo (%)	Efficiency, ηo (%)
Sd	Effective Surface Area, Sd
Xmax	Maximum Displacement, Xmax
Vd	Displacement Volume, Vd
Le @ 1 kHz	Voice Coil Inductance, Le @ 1 kHz

Thiele-Small parameters**

Resonant frequency, fs	33.2 Hz
D.C. Voice coil resistance, Re	6.5 ohms.
Mechanical Quality Factor, Qms	2.61
Electrical Quality Factor, Qes	0.73
Total Quality Factor, Qts	0.57
Equivalent Air Volume to Cms, Vas	61.35 l
Mechanical Compliance, Cms	907.7 μm / N
Mechanical Resistance, Rms	2.02 kg / s
Efficiency, ηo (%)	0.3
Effective Surface Area, Sd	0.022 m ²
Maximum Displacement, Xmax	6 mm.
Displacement Volume, Vd	130 cm ³
Voice Coil Inductance, Le @ 1 kHz	0.8 mH



Nota: respuesta de frecuencia medida en el eje con el altavoz fijado en panel infinito en el interior de cámara anecoica, 1w @ 1m.

Note: on axis frequency response measured with loudspeaker standing on infinite baffle in anechoic chamber, 1w @ 1m.

8WOOFER/P-V2

Especificaciones técnicas

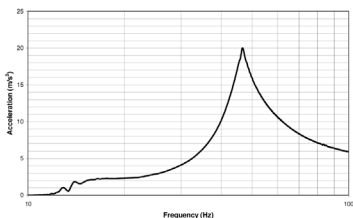
Diámetro nominal	Nominal diameter	200 mm. 8 in.
Impedancia nominal	Rated impedance	8 ohms.
Impedancia mínima	Minimum impedance	8.3 ohms.
Potencia admisible*	Power capacity*	50 w RMS
Potencia programa	Program power	100 w
Sensibilidad	Sensitivity	90 dB 2.83 v @ 1m @ 2m
Rango de frecuencias	Frequency range	30 - 6500 Hz
Frecuencia máxima recomendada	Maximum Recom. Frequency	200 Hz
Volumen de caja recom.	Recom. enclosure vol.	20 / 50 l 0.7 / 1.77 ft. ³
Diámetro de bobina	Voice coil diameter	25.8 mm. 1 in.
Peso conjunto magnético	Magnetic assembly weight	1 kg. 2.2 lb.
Factor BL	BL factor	7.0 N / A
Masa móvil	Moving mass	0.02 kg.
Altura bobinado	Voice coil length	15 mm.
Anchura entrehierro	Air gap height	6 mm.
Desplazamiento máximo	X damage (peak to peak)	20 mm.

Technical specifications

Parámetros Thiele-Small**

Fs	Resonant frequency, fs	35 Hz
Re	D.C. Voice coil resistance, Re	5.8 ohms.
Qms	Mechanical Quality Factor, Qms	2.72
Qes	Electrical Quality Factor, Qes	0.62
Qts	Total Quality Factor, Qts	0.50
Vas	Equivalent Air Volume to Cms, Vas	59 l
Cms	Mechanical Compliance, Cms	858.3 µm / N
Rms	Mechanical Resistance, Rms	1.95 kg / s
η0 (%)	Efficiency, η0 (%)	0.39
Sd	Effective Surface Area, Sd	0.022 m ²
Xmax	Maximum Displacement, Xmax	4.5 mm.
Vd	Displacement Volume, Vd	100 cm ³
Le @ 1 kHz	Voice Coil Inductance, Le @ 1 kHz	0.9 mH

Thiele-Small parameters**



Nota: Los datos de aceleración se obtienen aplicando la máxima potencia.

Note: acceleration data were obtained applying maximum power.

SK07

Especificaciones técnicas

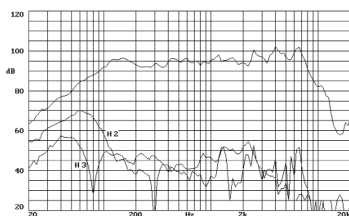
Impedancia nominal	Rated impedance	16 ohms.
Impedancia mínima	Minimum impedance	9.8 ohms.
Fuerza (pico)	Force (peak)	20 kgf 196 N
Potencia admisible (continua)	Power capacity (continuous)	50 w AES
Potencia admisible (máxima)	Power capacity (maximum)	100 w
Frecuencia de resonancia, fs	Resonant frequency, fs	47 Hz
Rango de frecuencias	Frequency range	20 - 100 Hz
Filtro de paso bajo, fc recomendado	Recom. low pass filter, fc	120 Hz, 18 dB/oct min.
Diámetro de bobina	Voice coil diameter	77 mm. 3 in.

Technical specifications

Características constructivas

Diámetro externo	Overall dimensions	156.5 x 156.5 mm. 6.16 x 6.16 in.
Profundidad	Depth	79 mm. 3.11 in.
Montaje	Mounting	Four Ø7 mm. passing holes, 90° apart on a 162.6 mm (6.40 in.) diameter circle.
4 agujeros roscados de Ø7 mm. a 90°, con un diámetro entre ejes de 162.6 mm. (6.40 in.).		
Peso neto	Net weight	1.5 Kg. 3.3 lb.
Peso total	Shipping weight	1.6 Kg. 3.52 lb.

Mounting information



Nota: respuesta de frecuencia medida en el eje con el altavoz fijado en panel infinito en el interior de cámara anecoica, 1w @ 1m.

Note: on axis frequency response measured with loudspeaker standing on infinite baffle in anechoic chamber, 1w @ 1m.

8M70-V2

Especificaciones técnicas

Diámetro nominal	Nominal diameter	200 mm. 8 in.
Impedancia nominal	Rated impedance	8 ohms.
Impedancia mínima	Minimum impedance	6.3 ohms.
Potencia admisible*	Power capacity*	90 w RMS
Potencia programa	Program power	180 w
Sensibilidad	Sensitivity	95 dB 2.83 v @ 1m @ 2π
Rango de frecuencias	Frequency range	120 - 9000 kHz
Volumen de caja recom.	Recom. enclosure vol.	20 / 50 l 0.7 / 1.77 ft. ³
Diámetro de bobina	Voice coil diameter	38.5 mm. 1.5 in.
Peso conjunto magnético	Magnetic assembly weight	2.75 kg. 4.18 lb.
Factor BL	BL factor	9.8 N / A
Masa móvil	Moving mass	0.019 kg.
Altura bobinado	Voice coil length	6 mm.
Anchura entrehierro	Air gap height	6 mm.

Technical specifications

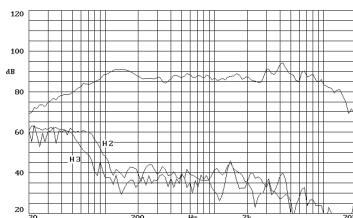
Nominal diameter	200 mm. 8 in.
Rated impedance	8 ohms.
Minimum impedance	6.3 ohms.
Power capacity*	90 w RMS
Program power	180 w
Sensitivity	95 dB 2.83 v @ 1m @ 2π
Frequency range	120 - 9000 kHz
Recom. enclosure vol.	20 / 50 l 0.7 / 1.77 ft. ³
Voice coil diameter	38.5 mm. 1.5 in.
Magnetic assembly weight	2.75 kg. 4.18 lb.
BL factor	9.8 N / A
Moving mass	0.019 kg.
Voice coil length	6 mm.
Air gap height	6 mm.

Parámetros Thiele-Small**

Fs	Resonant frequency, fs	90 Hz
Re	D.C. Voice coil resistance, Re	5.9 ohms.
Qms	Mechanical Quality Factor, Qms	3.52
Qes	Electrical Quality Factor, Qes	0.76
Qts	Total Quality Factor, Qts	0.62
Vas	Equivalent Air Volume to Cms, Vas	10.54 l
Cms	Mechanical Compliance, Cms	156 μm / N
Rms	Mechanical Resistance, Rms	2.58 kg / s
ηo (%)	Efficiency, ηo (%)	1.1
Sd	Effective Surface Area, Sd	0.022 m ²
Xmax	Maximum Displacement, Xmax	1 mm.
Vd	Displacement Volume, Vd	100 cm ³
Le @ 1 kHz	Voice Coil Inductance, Le @ 1 kHz	0.9 mH

Thiele-Small parameters**

Resonant frequency, fs	90 Hz
D.C. Voice coil resistance, Re	5.9 ohms.
Mechanical Quality Factor, Qms	3.52
Electrical Quality Factor, Qes	0.76
Total Quality Factor, Qts	0.62
Equivalent Air Volume to Cms, Vas	10.54 l
Mechanical Compliance, Cms	156 μm / N
Mechanical Resistance, Rms	2.58 kg / s
Efficiency, ηo (%)	1.1
Effective Surface Area, Sd	0.022 m ²
Maximum Displacement, Xmax	1 mm.
Displacement Volume, Vd	100 cm ³
Voice Coil Inductance, Le @ 1 kHz	0.9 mH



Nota: respuesta de frecuencia medida en el eje con el altavoz fijado en panel infinito en el interior de cámara anecoica, 1w @ 1m.

Note: on axis frequency response measured with loudspeaker standing on infinite baffle in anechoic chamber, 1w @ 1m.

6B30/P

Especificaciones técnicas

Diámetro nominal	Nominal diameter	165 mm. 6.5 in.
Impedancia nominal	Rated impedance	8 ohms.
Potencia admisible*	Power capacity*	50 w RMS
Potencia programa	Program power	80 w
Sensibilidad	Sensitivity	90 dB 2.83 v @ 1m @ 2π
Rango de frecuencias	Frequency range	50 - 12000 kHz
Volumen de caja recom.	Recom. enclosure vol.	10 / 40 l 0.35 / 1.4 ft. ³
Diámetro de bobina	Voice coil diameter	26 mm. 1 in.
Peso conjunto magnético	Magnetic assembly weight	1 kg. 2.2 lb.
Factor BL	BL factor	5.9 N / A
Masa móvil	Moving mass	0.014 kg.
Altura bobinado	Voice coil length	14 mm.
Anchura entrehierro	Air gap height	6 mm.
Desplazamiento máximo	X damage (peak to peak)	15 mm.

Technical specifications

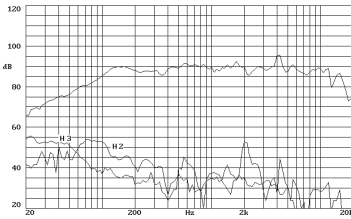
Nominal diameter	165 mm. 6.5 in.
Rated impedance	8 ohms.
Power capacity*	50 w RMS
Program power	80 w
Sensitivity	90 dB 2.83 v @ 1m @ 2π
Frequency range	50 - 12000 kHz
Recom. enclosure vol.	10 / 40 l 0.35 / 1.4 ft. ³
Voice coil diameter	26 mm. 1 in.
Magnetic assembly weight	1 kg. 2.2 lb.
BL factor	5.9 N / A
Moving mass	0.014 kg.
Voice coil length	14 mm.
Air gap height	6 mm.
X damage (peak to peak)	15 mm.

Parámetros Thiele-Small**

Fs	Resonant frequency, fs	55 Hz
Re	D.C. Voice coil resistance, Re	5.9 ohms.
Qms	Mechanical Quality Factor, Qms	3.36
Qes	Electrical Quality Factor, Qes	0.76
Qts	Total Quality Factor, Qts	0.62
Vas	Equivalent Air Volume to Cms, Vas	18 l
Cms	Mechanical Compliance, Cms	599 μm / N
Rms	Mechanical Resistance, Rms	1.44 kg / s
ηo (%)	Efficiency, ηo (%)	0.4
Sd	Effective Surface Area, Sd	0.014 m ²
Xmax	Maximum Displacement, Xmax	4 mm.
Vd	Displacement Volume, Vd	56 cm ³
Le @ 1 kHz	Voice Coil Inductance, Le @ 1 kHz	0.5 mH

Thiele-Small parameters**

Resonant frequency, fs	55 Hz
D.C. Voice coil resistance, Re	5.9 ohms.
Mechanical Quality Factor, Qms	3.36
Electrical Quality Factor, Qes	0.76
Total Quality Factor, Qts	0.62
Equivalent Air Volume to Cms, Vas	18 l
Mechanical Compliance, Cms	599 μm / N
Mechanical Resistance, Rms	1.44 kg / s
Efficiency, ηo (%)	0.4
Effective Surface Area, Sd	0.014 m ²
Maximum Displacement, Xmax	4 mm.
Displacement Volume, Vd	56 cm ³
Voice Coil Inductance, Le @ 1 kHz	0.5 mH



Nota: respuesta de frecuencia medida en el eje con el altavoz fijado en panel infinito en el interior de cámara anecoica, 1w @ 1m.

Note: on axis frequency response measured with loudspeaker standing on infinite baffle in anechoic chamber, 1w @ 1m.

5MP60/N

Especificaciones técnicas

Diámetro nominal	Nominal diameter	125 mm. 5 in.
Impedancia nominal	Rated impedance	8 ohms.
Potencia admisible*	Power capacity*	50 w RMS
Potencia programa	Program power	100 w
Sensibilidad	Sensitivity	91 dB 2.83 v @ 1m @ 2π
Rango de frecuencias	Frequency range	50 - 12000 kHz
Volumen de caja recom.	Recom. enclosure vol.	10 / 20 l 0.35 / 0.7 ft. ³
Diámetro de bobina	Voice coil diameter	25.8 mm. 1 in.
Peso conjunto magnético	Magnetic assembly weight	1 kg. 2.2 lb.
Factor BL	BL factor	6.4 N / A
Masa móvil	Moving mass	0.008 kg.
Altura bobinado	Voice coil length	14 mm.
Anchura entrehierro	Air gap height	6 mm.
Desplazamiento máximo	X damage (peak to peak)	20 mm.

Parámetros Thiele-Small**

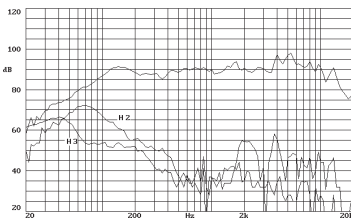
Fs	Resonant frequency, fs	60 Hz
Re	D.C. Voice coil resistance, Re	5.33 ohms.
Qms	Mechanical Quality Factor, Qms	1.604
Qes	Electrical Quality Factor, Qes	0.35
Qts	Total Quality Factor, Qts	0.29
Vas	Equivalent Air Volume to Cms, Vas	9.8 l
Cms	Mechanical Compliance, Cms	970 μm / N
Rms	Mechanical Resistance, Rms	1.75 kg / s
η0 (%)	Efficiency, η0 (%)	0.5
Sd	Effective Surface Area, Sd	0.0085 m ²
Xmax	Maximum Displacement, Xmax	4 mm.
Vd	Displacement Volume, Vd	34 cm ³
Le @ 1 kHz	Voice Coil Inductance, Le @ 1 kHz	0.4 mH

Technical specifications

Nominal diameter	125 mm. 5 in.
Rated impedance	8 ohms.
Power capacity*	50 w RMS
Program power	100 w
Sensitivity	91 dB 2.83 v @ 1m @ 2π
Frequency range	50 - 12000 kHz
Recom. enclosure vol.	10 / 20 l 0.35 / 0.7 ft. ³
Voice coil diameter	25.8 mm. 1 in.
Magnetic assembly weight	1 kg. 2.2 lb.
BL factor	6.4 N / A
Moving mass	0.008 kg.
Voice coil length	14 mm.
Air gap height	6 mm.
X damage (peak to peak)	20 mm.

Thiele-Small parameters**

Resonant frequency, fs	60 Hz
D.C. Voice coil resistance, Re	5.33 ohms.
Mechanical Quality Factor, Qms	1.604
Electrical Quality Factor, Qes	0.35
Total Quality Factor, Qts	0.29
Equivalent Air Volume to Cms, Vas	9.8 l
Mechanical Compliance, Cms	970 μm / N
Mechanical Resistance, Rms	1.75 kg / s
Efficiency, η0 (%)	0.5
Effective Surface Area, Sd	0.0085 m ²
Maximum Displacement, Xmax	4 mm.
Displacement Volume, Vd	34 cm ³
Voice Coil Inductance, Le @ 1 kHz	0.4 mH



Nota: respuesta de frecuencia medida en el eje con el altavoz fijado en panel infinito en el interior de cámara anecoica, 1w @ 1m.

Note: on axis frequency response measured with loudspeaker standing on infinite baffle in anechoic chamber, 1w @ 1m.

5M30

Especificaciones técnicas

Diámetro nominal	Nominal diameter	125 mm. 5 in.
Impedancia nominal	Rated impedance	8 ohms.
Potencia admisible*	Power capacity*	50 w RMS
Potencia programa	Program power	100 w
Sensibilidad	Sensitivity	91 dB 2.83 v @ 1m @ 2π
Rango de frecuencias	Frequency range	60 - 12000 Hz
Volumen de caja recom.	Recom. enclosure vol.	20 / 50 l 0.7 / 1.77 ft. ³
Diámetro de bobina	Voice coil diameter	25.8 mm. 1 in.
Peso conjunto magnético	Magnetic assembly weight	0.9 kg. 2 lb.
Factor BL	BL factor	6.4 N / A
Masa móvil	Moving mass	0.008 kg.
Anchura entrehierro	Air gap height	4 mm.
Desplazamiento máximo	X damage (peak to peak)	20 mm.

Parámetros Thiele-Small**

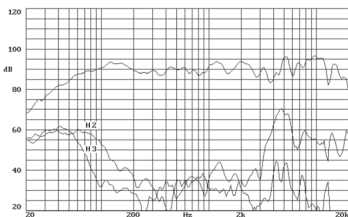
Fs	Resonant frequency, fs	85 Hz
Re	D.C. Voice coil resistance, Re	6.5 ohms.
Qms	Mechanical Quality Factor, Qms	2.72
Qes	Electrical Quality Factor, Qes	0.8
Qts	Total Quality Factor, Qts	0.61
Vas	Equivalent Air Volume to Cms, Vas	6 l
Cms	Mechanical Compliance, Cms	440 μm / N
Rms	Mechanical Resistance, Rms	1.57 kg / s
η0 (%)	Efficiency, η0 (%)	0.5
Sd	Effective Surface Area, Sd	0.009 m ²
Xmax	Maximum Displacement, Xmax	1 mm.
Vd	Displacement Volume, Vd	9 cm ³
Le @ 1 kHz	Voice Coil Inductance, Le @ 1 kHz	0.5 mH

Technical specifications

Nominal diameter	125 mm. 5 in.
Rated impedance	8 ohms.
Power capacity*	50 w RMS
Program power	100 w
Sensitivity	91 dB 2.83 v @ 1m @ 2π
Frequency range	60 - 12000 Hz
Recom. enclosure vol.	20 / 50 l 0.7 / 1.77 ft. ³
Voice coil diameter	25.8 mm. 1 in.
Magnetic assembly weight	0.9 kg. 2 lb.
BL factor	6.4 N / A
Moving mass	0.008 kg.
Air gap height	4 mm.
X damage (peak to peak)	20 mm.

Thiele-Small parameters**

Resonant frequency, fs	85 Hz
D.C. Voice coil resistance, Re	6.5 ohms.
Mechanical Quality Factor, Qms	2.72
Electrical Quality Factor, Qes	0.8
Total Quality Factor, Qts	0.61
Equivalent Air Volume to Cms, Vas	6 l
Mechanical Compliance, Cms	440 μm / N
Mechanical Resistance, Rms	1.57 kg / s
Efficiency, η0 (%)	0.5
Effective Surface Area, Sd	0.009 m ²
Maximum Displacement, Xmax	1 mm.
Displacement Volume, Vd	9 cm ³
Voice Coil Inductance, Le @ 1 kHz	0.5 mH



Nota: respuesta de frecuencia medida en el eje con el altavoz en panel infinito en la cámara anecoica, 1w @ 1m. Frecuencia de corte fijada en 3,75 kHz a 12 dB.

Note: on axis frequency response measured with loudspeaker standing on infinite baffle in anechoic chamber, 1w @ 1m. Crossover frequency set at 3,75 kHz @ 12dB/oct.

8BX/N

Especificaciones técnicas

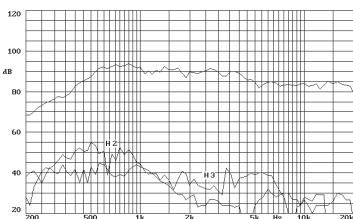
Diámetro nominal	Nominal diameter	200 mm. 8 in.
Impedancia nominal	Rated impedance	8 ohms.
Impedancia mínima	Minimum impedance	5.3 ohms.
Potencia admisible*	Power capacity*	100 / 20 w AES
Potencia programa	Program power	200 / 40 w
Sensibilidad	Sensitivity	92 dB / 102 dB 2.83v @ 1m @ 2rt
Rango de frecuencias	Frequency range	60-20000 Hz
Volumen de caja recom.	Recom. enclosure vol.	20 / 60 l 0.70 / 2.11 ft. ³
Diámetro de bobina	Voice coil diameter	38.5 / 25.8 mm. 1.5 / 1 in.
Peso conjunto magnético	Magnetic assembly weight	2 kg 4.4 lb.
Factor BL	BL factor	6.8 N / A A
Masa móvil	Moving mass	0.023 kg.
Altura bobinado	Voice coil length	14 mm.
Anchura entrehierro	Air gap height	6 mm.
Desplazamiento máximo)	X damage (peak to peak)	20 mm.

Technical specifications

Parámetros Thiele-Small**

Fs	Resonant frequency, fs	57 Hz
Re	D.C. Voice coil resistance, Re	5.3 ohms.
Qms	Mechanical Quality Factor, Qms	4.83
Qes	Electrical Quality Factor, Qes	0.77
Qts	Total Quality Factor, Qts	0.66
Vas	Equivalent Air Volume to Cms, Vas	22 l
Cms	Mechanical Compliance, Cms	326 µm / N
Rms	Mechanical Resistance, Rms	0.78 kg / s
ηo (%)	Efficiency, ηo (%)	0.41
Sd	Effective Surface Area, Sd	0.022 m ²
Xmax	Maximum Displacement, Xmax	5 mm
Vd	Displacement Volume, Vd	110 cm ³
Le @ 1 kHz	Voice Coil Inductance, Le @ 1 kHz	0.4 mH

Thiele-Small parameters**



Nota: respuesta de frecuencia medida en el eje en cámara anecoica, 1w @ 1m.

Note: on axis frequency response measure in anechoic chamber, 1w @ 1m.

MC115

Especificaciones técnicas

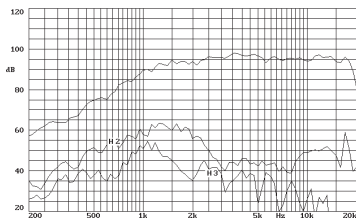
Diámetro nominal	Nominal diameter	62 mm. 2.5 in.
Impedancia nominal	Rated impedance	8 ohms.
Impedancia mínima	Minimum impedance	7.8 ohms. @ 1.5 kHz
Resistencia eléctrica	D.C. Resistance	6.13 ohms.
Potencia admisible*	Power capacity*	25 w RMS
Potencia programa	Program power	50 w
Eficacia	Sensitivity**	91 dB 1 w @ 1m
Rango de frecuencias	Frequency range	600/12500 kHz
Frecuencia de corte recom. (min.)	Recom. crossover (minimum)	800 Hz o mayor / or higher, (12 dB/oct. min.)
Dispersión H x V	Dispersion H x V	120°
Diámetro de bobina	Voice coil diameter	44.3 mm. 1.75 in.
Peso conjunto magnético	Magnetic assembly weight	1.06 kg. 2.33 lb.
Densidad de flujo	Flux density	1.1 T
Factor BL	BL factor	7.1 N/A
Material de la membrana	Diaphragm material	Tela plastificada / Plasticised fabric

Technical specifications

Características constructivas

Diámetro externo	Overall diameter	140 mm. 5.5 in.
Diámetro entre agujeros de sujeción	Bolt circle diameter	128 mm. 5.04 in.
Montaje frontal	Baffle cutout dimensions	115 mm. 4.52 in.
Profundidad	Depth	40 mm. 1.57 in.
Peso neto	Net weight	1.25 Kg. 2.75 lb.
Peso total	Shipping weight	1.325 Kg. 2.91 lb.

Mounting information



Nota: respuesta de frecuencia medida en el eje en cámara anecoica, 1w @ 1m.

Note: on axis frequency response measure in anechoic chamber, 1w @ 1m.

T2030

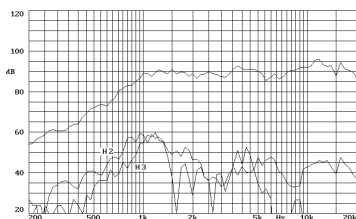
Especificaciones técnicas

Diámetro nominal	Nominal diameter	32 mm. 1.25 in.
Impedancia nominal	Rated impedance	8 ohms.
Impedancia mínima	Minimum impedance	6.2 ohms. @ 2.5 kHz
Resistencia eléctrica	D.C. Resistance	5 ohms.
Potencia admisible*	Power capacity*	15 w RMS
Potencia programa	Program power	30 w
Eficacia	Sensitivity**	95 dB 1 w @ 1m
Rango de frecuencias	Frequency range	1.5/20 kHz
Frecuencia de corte recom. (min.)	Recom. crossover (minimum)	2 kHz o mayor / or higher, (12 dB/oct. min.)
Dispersión H x V	Dispersion H x V	60°
Diámetro de bobina	Voice coil diameter	25.4 mm. 1 in.
Peso conjunto magnético	Magnetic assembly weight	0.525 kg. 1.16 lb.
Densidad de flujo	Flux density	1.44 T
Factor BL	BL factor	3 N/A
Material de la membrana	Diaphragm material	Aluminio / Aluminium

Características constructivas

Diámetro externo	Overall diameter	102 mm. 3.9 in.
Diámetro entre agujeros de sujeción	Bolt circle diameter	90 mm. 3.54 in.
Montaje frontal	Baffle cutout dimensions	75 mm. 2.95 in.
Profundidad	Depth	42 mm. 1.65 in.
Peso neto	Net weight	0.66 Kg. 1.45 lb.
Peso total	Shipping weight	0.7 Kg. 1.54 lb.

Mounting information



Nota: respuesta de frecuencia medida en el eje en cámara anecoica, 1w @ 1m.

Note: on axis frequency response measure in anechoic chamber, 1w @ 1m.

T2010

Especificaciones técnicas

Diámetro nominal	Nominal diameter	32 mm. 1.25 in.
Impedancia nominal	Rated impedance	8 ohms.
Impedancia mínima	Minimum impedance	7.2 ohms. @ 2 kHz
Resistencia eléctrica	D.C. Resistance	6 ohms.
Potencia admisible*	Power capacity*	12 w RMS
Potencia programa	Program power	24 w
Eficacia	Sensitivity**	92 dB 1 w @ 1m
Rango de frecuencias	Frequency range	1.5/20 kHz
Frecuencia de corte recom. (min.)	Recom. crossover (minimum)	2 kHz o mayor / or higher, 12 dB/oct. min.
Dispersión H x V	Dispersion H x V	80°
Diámetro de bobina	Voice coil diameter	25.8 mm. 1 in.
Peso conjunto magnético	Magnetic assembly weight	0.48 kg. 1.05 lb.
Densidad de flujo	Flux density	1.15 T
Factor BL	BL factor	3.2 N/A
Material de la membrana	Diaphragm material	Supronyl

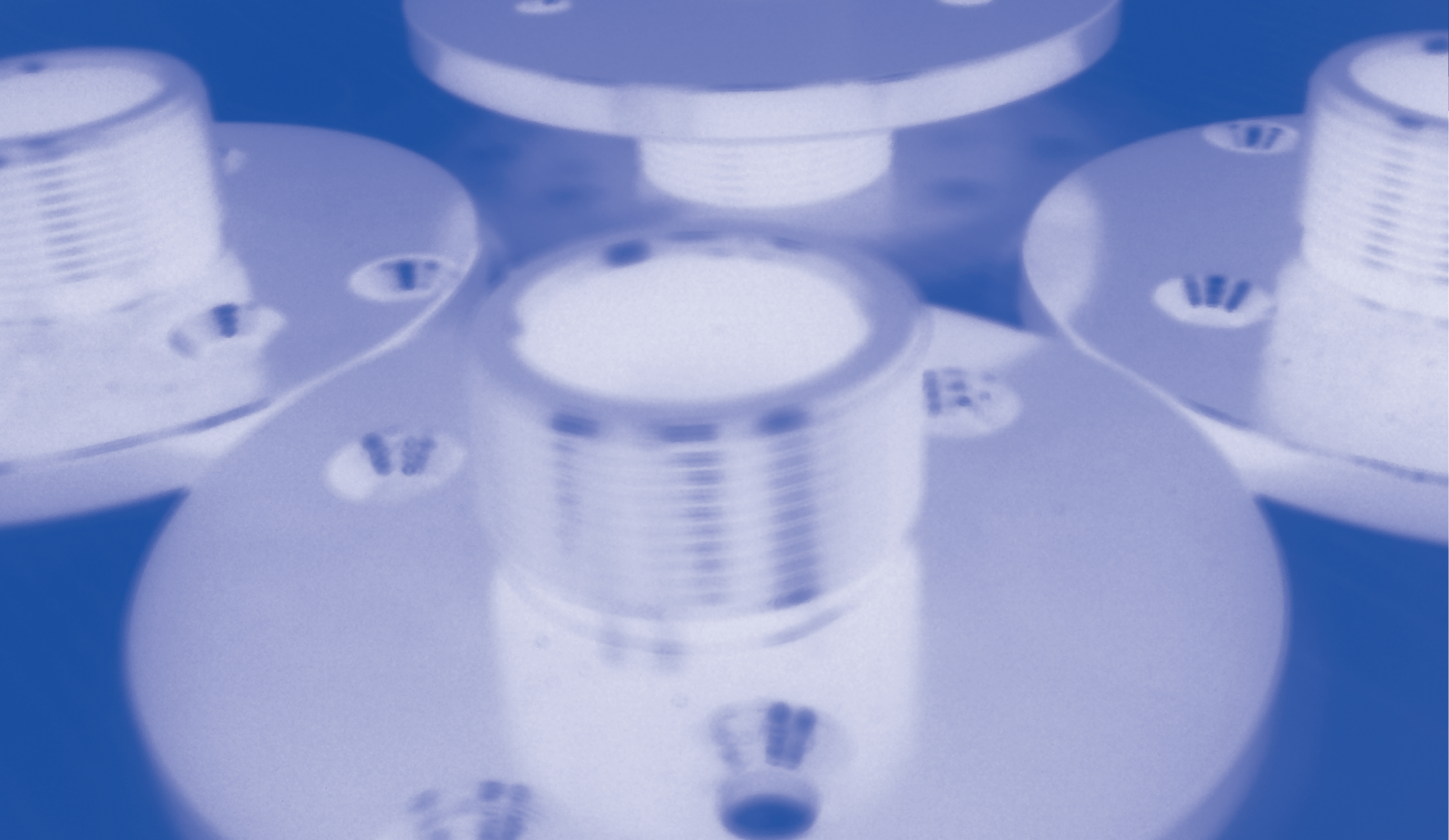
Características constructivas

Diámetro externo	Overall diameter	100 mm. 3.9 in.
Diámetro entre agujeros de sujeción	Bolt circle diameter	88 mm. 3.46 in.
Montaje frontal	Baffle cutout dimensions	75 mm. 2.95 in.
Profundidad	Depth	29 mm. 1.14 in.
Peso neto	Net weight	0.55 Kg. 1.2 lb.
Peso total	Shipping weight	0.6 Kg. 1.32 lb.

Mounting information



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accessorios
accessories

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PROFESSIONAL LOUDSPEAKERS



AM1

Adaptador para conexión de motores de compresión con garganta de 1 in. a bocinas con entrada de rosca estándar de 35mm (1³/₈).

Adapter for connecting 1 in. throat compression drivers to standard 1³/₈ (35mm.) thread-in horns.



AM21

Adaptador para reducir la garganta de una bocina de 2 in. a 1 in.

Tapered for 2 in. horn entry to 1 in. driver.



VM30

Vaso de plástico para altavoces de medios de 5 in. Profundidad: 140 mm.

Back plastic cover for 5 in. mid-range loudspeakers.
Depth: 140 mm



RE8/N

Rejilla difusora de plástico para sujetar al techo. Para altavoces de 8 in.

Plastic diffusing grid for 8 in. PUBLIC ADDRESS loudspeakers.



VM100

Vaso de plástico para altavoces de medios de 8 in. Profundidad: 120 mm.

Back plastic cover for 8 in. mid-range loudspeakers.
Depth: 120 mm



PROFESSIONAL LOUDSPEAKERS

NOTAS ALTAVOCES Y COAXIALES:

- * La potencia admisible se ha determinado de acuerdo con la norma AES2-1984 (r2003). Por potencia programa se entiende la capacidad del altavoz en el manejo de señales transitorias del tipo que se encuentran en un pasaje musical normal.
 - **Los parámetros T-S han sido medidos después de una período de fatiga y estabilización de las suspensiones, mediante transductor láser de velocidad-corriente. Constituyen el reflejo de los parámetros del altavoz a largo plazo (una vez este haya sido instalado y haya trabajado en un corto espacio de tiempo)
-

NOTAS MOTORES:

- *La potencia admisible se ha determinado de acuerdo con la norma AES2-1984 (r2003). Por potencia programa se entiende la capacidad del altavoz en el manejo de señales transitorias del tipo que se encuentran en un pasaje musical normal.
 - **Medición realizada con el micrófono a 1 m. de distancia, en el eje, aplicando 1 w al altavoz, promediando en el rango 1-7 kHz.
-

NOTAS TWEETERS:

- * La potencia admisible se ha determinado de acuerdo con la norma AES2-1984 (r2003). Por potencia programa se entiende la capacidad del altavoz en el manejo de señales transitorias del tipo que se encuentran en un pasaje musical normal.
 - **Medición realizada con el micrófono a 1 m. de distancia, en el eje, aplicando 1 w al altavoz, promediando en el rango 3-15 kHz.
-

NOTA POLITICA COMERCIAL:

Todo producto cuya impedancia sea distinta a los modelos del catálogo, se considera especial y está sujeto a condiciones comerciales especiales (consulte con su distribuidor).

Los productos de Beyma está en proceso de mejora continua. Por ello, las especificaciones técnicas pueden variar sin previo aviso.

LOUDSPEAKERS AND COAXIALS NOTES:

- * The Power capacity is determined according to AES2-1984 (r2003) standard. Program power is defined as the transducer's ability to handle normal music program materials.
 - **T-S parameters are measured after an exercise period using a pre conditioning power test. The measurements are carried out with a velocity-current laser transducer and will reflect the long term parameters (once the loudspeaker has been working for a short period of time).
-

HIGH FREQUENCY COMPRESSION DRIVERS NOTES:

- * The Power capacity is determined according to AES2-1984 (r2003) standard. Program power is defined as the transducer's ability to handle normal music program materials.
 - **Sensitivity was measured at 1m distance, on axis, with 1 w input, averaged in the range 1-7 kHz
-

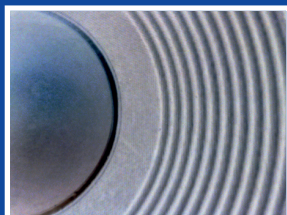
COMPRESSION TWEETERS NOTES:

- * The Power capacity is determined according to AES2-1984 (r2003) standard. Program power is defined as the transducer's ability to handle normal music program materials.
 - **Sensitivity was measured at 1m distance, on axis, with 1 w input, averaged in the range 3-15 kHz
-

COMMERCIAL POLICY NOTES:

- * Every model whose impedance will be different from the models existing in the catalogue, will be considered as "special" and will have special conditions. *(please consult with your distributor)*
-

Beyma Products are continually improved, any specification is therefore subject to change without prior notice.



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