

12P80FeV2 LOW FREQUENCY TRANSDUCER

P80 Series

KEY FEATURES

- + 700 $\rm W_{AES}$ power handling capacity
- High sensitivity: 100 dB
- Wide usable frequency range and low harmonic distortion
- Low resonant frequency: 51 Hz
- Extended controlled displacement: X_{max} ± 7,5 mm
- Extended mechanical displacement capability: X_{dam} ± 52 mm
- Low power compression losses
- CONEX spider
- Designed with MMSS technology

TECHNICAL SPECIFICATIONS

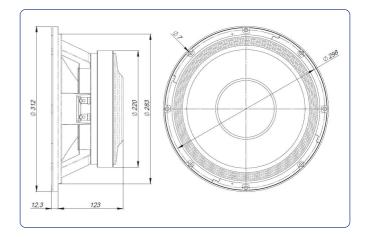
Nominal diameter Rated impedance	300 mm	12 in 8 Ω	
Minimum impedance		7Ω	
Power capacity*	700 W _{AES}		
Program power	1.40	W 00	
Sensitivity	100 dB 1W / 1m (@ Z _N	
Frequency range	50 - 4.00	0 Hz	
Recom. enclosure vol.	20 / 60 I 0,7 / 2,2	24 ft ³	
Voice coil diameter	101,6 mm 4 in		
BI factor	22,5	5 N/A	
Moving mass	0,06	65 kg	
Voice coil length	20) mm	
Air gap height	12	2 mm	
X _{damage} (peak to peak)	52	2 mm	

THIELE-SMALL PARAMETERS**

Resonant frequency, f _s	50 Hz
D.C. Voice coil resistance, R _e	5,1 Ω
Mechanical Quality Factor, Q _{ms}	4,9
Electrical Quality Factor, Q _{es}	0,21
Total Quality Factor, Q _{ts}	0,20
Equivalent Air Volume to C _{ms} , V _{as}	66,8 I
Mechanical Compliance, C _{ms}	156 μm / N
Mechanical Resistance, R _{ms}	4,2 kg / s
Efficiency, η ₀	4 %
Effective Surface Area, S _d	0,055 m²
Maximum Displacement, X _{max} ***	7,5 mm
Displacement Volume, V _d	412,5 cm ³
Voice Coil Inductance, L _e @ 1 kHz	1,1 mH



DIMENSION DRAWINGS



MOUNTING INFORMATION

Overall diameter Bolt circle diameter	312 mm 298 mm	12,28 in 11,73 in
Baffle cutout diameter:		
- Front mount	283 mm	11,12 in
Depth	133 mm	5,24 in
Net weight	11,5 kg	25,35 lb
Shipping weight	12,2 kg	26,90 lb

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 material.

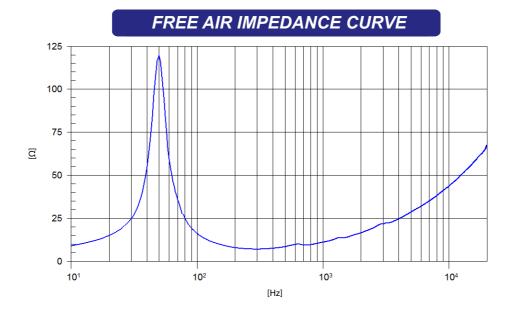
** T-S parameters are measured after an exercise period using a preconditioning power test. The measurements are carried out with a velocity-current laser transducer and will reflect the long term parameters (once the loudspeaker has been working for a short period of time).

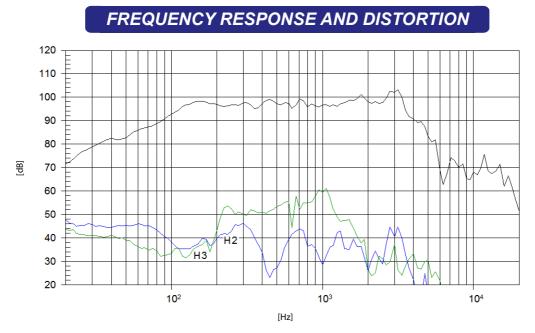
*** The X_{max} is calculated as (L_{vc} - H_{ag})/2 + (H_{ag}/3,5), where L_{vc} is the voice coil length and H_{ag} is the air gap height.



www.beyma.com

12P80FeV2 LOW FREQUENCY TRANSDUCER P80 Series





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

beyma JJ

Polígono Industrial Moncada II • C/. Pont Sec, 1c • 46113 MONCADA - Valencia (Spain) • Tel.: (34) 96 130 13 75 • Fax: (34) 96 130 15 07 • http://www.beyma.com • E-mail: beyma@beyma.com •