

Eighteensound 12MB700 8 Ohm - Zvučnik

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Eighteensound 12MB700 8 Ohm - Zvučnik

12MB700 Very High Output MB Ferrite Driver

Key features

101,5 dB SPL 1W / 1m sensitivity

75 mm (3 in) Interleaved Sandwich Voice coil (ISV)

450 W

Double Demodulating Rings (DDR) for lower distortion

Impro

Weather protected cone and plates for outdoor usage

Ideal

Description

The 12MB700 is a very high sensitivity (101.5 dB 1W/1m) midbass driver with high power handling capabilities. The 12MB700 can be used as either a bass/mid driver in compact 2-way reflex enclosures or as a direct radiating or horn loaded, dedicated midrange driver, in multi-way touring and fixed installation concert and arena systems.

Its curvilinear paper cone made from a special high strength wood pulp, has been designed to achieve the best possible linearity within its intended frequency range and to control bell-mode resonances around the cone circumference. The cone is carried by a multiroll suspension formed of a linen-like material, which is more resistant to aging and fatigue than traditional materials.

The 75 mm diameter state-of-the-art voice coil is similar to those fitted to our top-of-the-range 18" and 15" models but it is wound with aluminum wire. It employs our Interleaved Sandwich Voice coil (ISV) technology in which a high strength fiberglass former carries windings on both the outer and inner surfaces to achieve a mass balanced coil. This results in an extremely linear motor assembly with a reduced tendency for eccentric behavior when driven hard.

The excellent performance capabilities of this loudspeaker are further enhanced by the Double Demodulating Rings (DDR) designed to dramatically reduce the intermodulation and harmonic distortion and improve transient response.

The magnetic structure has been optimized using FEA CAD resource, maximizing the flux density in the voice coil gap.

Voice coil cooling has been achieved by incorporating airways between the chassis back plate and the top plate of the magnet, allowing heated air from the voice coil and gap to be channeled away and dissipated by the chassis basket.

Due to the increasing use of high power audio systems at outdoor events or in marine environments, the ability to perform properly under inclement weather conditions is a key feature in Eighteen Sound philosophy. Hence, an exclusive treatment has been applied to the cone giving it water repellent properties. In addition, another special treatment has been applied to the top and back plates making the transducer far more resistant to the corrosive effects of salts and oxidization.

GENERAL SPECIFICATIONS

Nominal Diameter	300 mm (12 in)
Rated Impedance	8 Ohm
AES Power	450 W
Program Power (1)	600 W
Peak Power (2)	1200 W
Sensitivity (3)	101,5 dB
Frequency Range (4)	60 ÷ 5000 Hz
Power Compression @-10dB (5)	0,4 dB
Power Compression @-3dB	1,5 dB
Power Compression @Full Power	2,8 dB
Max Recomm. Frequency	4000 Hz
Recomm. Enclosure Volume	10 ÷ 80 lt. (0,3 ÷ 2,83 cuft)
Minimum Impedance	5,7 Ohm at 25°C
Max Peak To Peak Excursion	22 mm (0,87 in)
Voice Coil Diameter	75 mm (3 in)
Voice Coil Winding Material	aluminum
Suspension	M-roll, Polycotton

Cone	Curvilinear, Paper
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THIELE SMALL PARAMETERS (6)

Fs	49 Hz
Re	5 Ohm
Sd	0,0531 sq.mt. (82,31 sq.in.)
Qms	4,7
Qes	0,2
Qts	0,19
Vas	101 lt. (3,57 cuft)
Mms	41 gr. (0,09 lb)101 lt. (3,57 cuft)
BL	17,8 Tm
Linear Mathematical Xmax (7)	± 4,5 mm (± 0,18 in)
Le (1kHz)	0,9 mH
Ref. Efficiency 1W@1m (half space)	99,6 dB

MOUNTING INFORMATION

Overall diameter	315 mm (12,4 in)
N. of mounting holes	8
Mounting holes diameter	7,15 mm (0,28 in)
Bolt circle diameter	296 - 300 mm (11,65 - 11,8 in)
Front mount baffle cutout ø	282 mm (11,1 in)
Rear mount baffle cutout ø	282 mm (11,1 in)
Total depth	147,5 mm (5,82 in)
Flange and gasket thickness	16,5 mm (0,65 in)
Net weight	8,0 kg (17,66 lb)
Shipping weight	8,8 kg (19,43 lb)
CardBoard Packaging dimensions	332 x 332 x 184 mm (13,07 x 13,07 x 7,24 in)

FREQUENCY RESPONSE CURVE OF 12MB700 MADE ON 50 LIT. ENCLOSURE TUNED 60HZ IN FREE FIELD (4PI) ENVIRONMENT. ENCLOSURE CLOSES THE REAR OF THE DRIVER. THE THIN LINE REPRESENTS 45 DEG. OFF AXIS FREQUENCY RESPONSE