12MB720 8Ω

LF drivers - 12.0 Inches

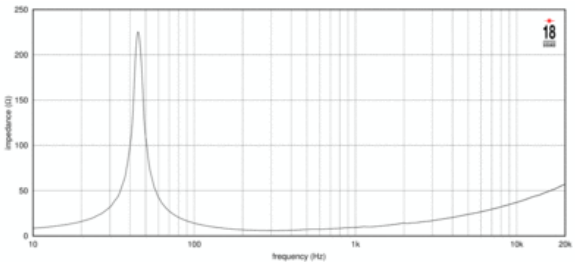
- 100dB Sensitivity
- Single demodulating ring
- 75mm (3") Interleaved Sandwich voice coil
- 500 watts AES power handling

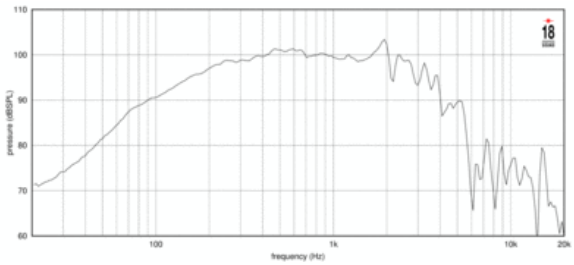
Limited distribution U.S. only. Contact Universal music (U.S. official distributor) for infos
The 12MB720 is a very high sensitivity (100dB 1W/1m) midbass driver with high power handling capabilities. It can be used as either a bass/mid driver in compact 2-way reflex enclosures or as a direct radiating 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 copper voice coil employs our Interleaved Sandwich Voice coil (ISV) technology. 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 Single Demodulating Rings (SDR) 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 and its cooling. An exclusive treatment has been applied to the cone giving it water repellent properties.

Eighteen Sound Srl
Via Botticelli 8 - 42124 Mancasale (RE) - ITALY - Ph. +39 0522 1861800 - Fax +39 0522 1861801 - info@eighteensound.it

12MB720 8Ω

LF drivers - 12.0 Inches





SPECIFICATIONS

Nominal Impedance	8 Ω
Minimum Impedance	6.4 Ω
Nominal Power Handling[1]	500 W
Continuous Power Handling[2]	1000 W
Sensitivity[3]	100.0 dB
Frequency Range	90 - 4000 Hz
Voice Coil Diameter	75 mm (3.0 in)
Winding Material	aluminum
Winding Depth	15.0 mm (0.59 in)
Magnetic Gap Depth	10.0 mm (0.39 in)

DESIGN

Surround Shape	M-roll
Magnet Material	Ferrite
Woofer Cone Treatment	Weather protected
Recommended Enclosure	25.0 dm^3 (0.88 ft^3)
Recommended Tuning	60 Hz

PARAMETERS[4]

Resonance Frequency	46 Hz
Re	5.0 Ω
Qes	0.2
Qms	10.3
Qts	0.2
Vas	81.0 dm^3 (2.86 ft^3)
Sd	531.0 cm^2 (82.31 in^2)
η_0	3.8 %
Xmax	5.0 mm
Xvar	6.1 mm
Mms	59.0 g
Bl	20.5 Txm
Le	0.79 mH
EBP	230 Hz

MOUNTING AND SHIPPING INFO

Overall Diameter	310 mm (12.2 in)
Bolt Circle Diameter	295 mm (11.61 in)
Baffle Cutout Diameter	283.0 mm (11.14 in)
Depth	142 mm (5.59 in)
Flange and Gasket Thickness	13 mm (0.52 in)
Net Weight	7.8 kg (17.2 lb)
Shipping Weight	8.3 kg (18.3 lb)

1. 2 hours test made with continuous pink noise signal within the range Fs-10Fs. Power calculated on rated minimum impedance. Loudspeaker in free air.
2. Power on Continuous Program is defined as 3 dB greater than the Nominal rating.
3. Applied RMS Voltage is set to 2.83 V for 8 ohms Nominal Impedance.
4. Thiele-Small parameters are measured after a high level 20 Hz sine wave preconditioning test.