

- 98 dB SPL 1W/ 1m average sensitivity
- 75 mm (3 in) Interleaved Sandwich Voice coil (ISV)
- 450W AES power handling
- Excellent transient response
- Ideal for compact two way systems
- Improved heat dissipation via unique basket design

The 12MB606 ferrite mid bass transducer meets the specific market requirement for a loudspeaker combining good linearity and efficiency with high power handling capabilities.

The 12MB606 is an ideal low frequency ferrite driver choice for two-way systems where the balance between low frequency

reproduction and midrange precision is required. Although primarily developed for midbass use, the 12MB606's versatile characteristics render it suitable for compact reflex subwoofers (around 50-55 lt).

The curvilinear paper cone has been made with a special high strength wood-pulp designed to achieve the best possible linearity within its intended frequency range and to control bell-mode resonance around the cone circumference.

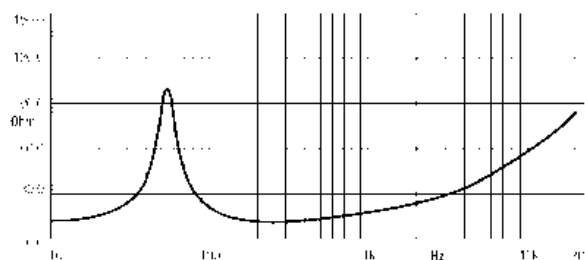
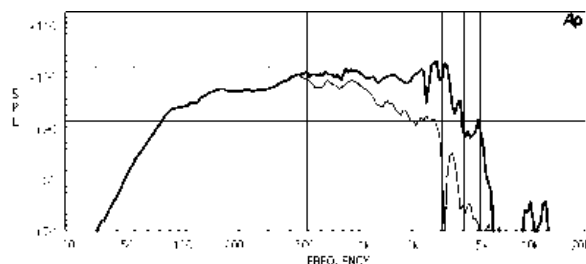
The cone is carried by an unusually deep profile, double roll polycotton suspension.

The suspension geometry has been carefully designed for superior symmetry, resulting in DC offset free movement in the lowest frequency area.

The 75 mm 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. The result is an extremely linear motor assembly with a reduced tendency for eccentric behavior when driven hard.

The ferrite magnetic structure has been optimized using FEA CAD simulation software to maximize the flux density and symmetry in the voice coil gap region and to minimize weight. A lightweight aluminum basket contributes to an excellent weight to performance ratio for a ferrite driver.

Due to the increasing use of audio systems at outdoor events, the 12MB606's ability to perform in adverse, high humidity weather conditions is another excellent feature. This has been achieved by means of a proprietary water-repellent cone treatment.



SPECIFICATIONS

Nominal Diameter	300 mm (in)
Nominal Impedance	8 Ω
Minimum Impedance	0.0 Ω
Nominal Power Handling ¹	450 W
Continuous Power Handling ²	600 W
Sensitivity ³	98.0 dB
Frequency Range	50 - 5200 Hz
Voice Coil Diameter	75 mm (3.0 in)
Winding Material	aluminum

DESIGN

Surround Shape	M-roll
Cone Shape	Straight
Magnet Material	Ferrite
Woofers Cone Treatment	Weather protected
Recommended Enclosure	60.0 dm ³ (2.12 ft ³)
Recommended Tuning	55 Hz

PARAMETERS⁴

Resonance Frequency	50 Hz
Re	5.7 Ω
Qes	0.34
Qms	6.3
Qts	0.32
Vas	84.0 dm ³ (2.97 ft ³)
Sd	531.0 cm ² (82.31 in ²)
Xmax	6.5 mm
Mms	47.0 g
Bl	16.0 Txm
Le	1.5 mH
EBP	147 Hz

MOUNTING AND SHIPPING INFO

Overall Diameter	315 mm (12.4 in)
Bolt Circle Diameter	296 mm (11.65 in)
Baffle Cutout Diameter	282.0 mm (11.1 in)
Depth	133 mm (5.24 in)
Flange and Gasket Thickness	11 mm (0.43 in)
Net Weight	5.7 kg (12.57 lb)
Shipping Weight	6.5 kg (lb)
Shipping Box	332 x 332 x 184 mm (13.07x13.07x7.24 in)

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.