



FLAGSHIP™ Series FL-12MB



Applications

FL-12MB

The Flagship Series FL-12MB has been designed for very high output and low distortion response in both direct radiator and horn loaded mid bass system designs. The Neodymium Iron Boron permanent magnetic material provides very high mid band output efficiency and the short voice coil design insures very high acoustical conversion efficiency. Because a large percentage of total system power is located in the critical mid band frequency range, the FL-12MB utilizes an edge wound rectangular wire large format voice coil design. This design is a full 4 inch diameter (101.6mm) assembly that has been designed to provide extended reliability and controlled time domain response in the vocal range. When utilized in a 3 way system, where the FL-12MB is the mid bass component, the overall systems will produce a very clean and controlled mid bass response. The FL-12MB uses the same cone material as the FL-12LF to provide high internal damping and controlled mid band response. The suggested frequency range for this driver is 60Hz to 2000Hz.

The FL-12MB may be used in any professional touring, portable public address system or permanent installation where high output and low weight are both critical performance parameters.

Specifications

GENERAL SPECIFICATIONS

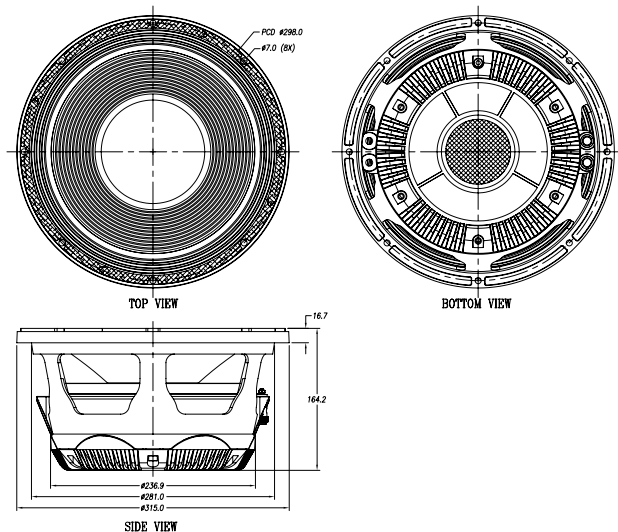
Nominal Impedance	8 Ω
Power	800 Watt (rms)
SPL 1W@1M average sensitivity	97 dB
Frequency Response	60Hz - 2000Hz
Dimension \varnothing x H (cm)	31.5 x 16.4
Net Weight	8.4 kg (18.5 lbs)
Shipping Weight	9.6 kg (21.1 lbs)
Packing Dimension H x W x D (cm)	34.5 x 34.5 x 21.0 (0.9cu.ft)
	13.6" x 13.6" x 8.3"

PHYSICAL SPECIFICATIONS

Magnet type	Neodymium
Voice Coil Diameter	101.6 mm (4 inch)

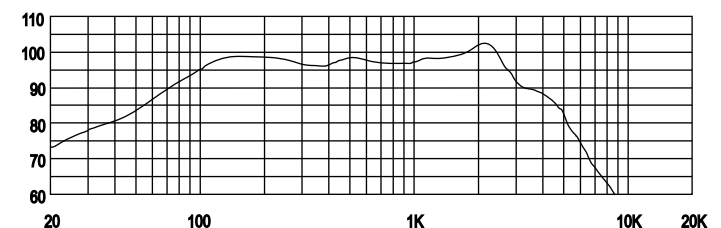
THIELE/SMALL PARAMETERS

Resonance Frequency	Fs	59 Hz
DC. Resistance	Re	5.2 Ω
Coil Inductance	Le	0.44 mH
Mechanical Q Factor	Qms	6.22
Electrical Q Factor	Qes	0.33
Total Q Factor	Qts	0.31
BL Product	BL	24.04 Tm
Effective Moving Mass	Mms	97.13 g
Equivalent Cas Air-Load	Vas	29.39 Liters
Effective Piston Area	Sd	0.0550 Sqm
Half-Space Efficiency	Eff	1.84 %
Airgap Height	Hag	10.0 mm
Voice Coil Height	Hvc	16.0 mm
Voice Coil Overhang	Xmax	3.0 mm



dB SPL

SPL vs FREQ



Frequency Response

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