

MB12N301

MID - BASS

DESCRIPTION

The MB12N301 is a neodymium, high efficiency, 12" mid-bass. High sensitivity, excellent linearity and very high power handling capabilities. The magnetic structure is powered by a large neodymium magnet that provides an extremely high flux density in the gap. The new hyper-vented aluminium basket and magnetic assembly design provide an excellent heat dissipation and lower power compression. Special air-forced ventilations are provided for voice coil, magnet assembly and basket. M-roll surround and spider design offer great linearity and precise reproduction.



FEATURES

- 3.0-inch, fibreglass inside/outside copper voice coil
- 1000 Watt continuous program power handling
- 98.5dB Sensitivity
- 50Hz -3.0KHz Frequency range
- Dual-forced air ventilation for minimum power compression
- M-roll surround and exponential cone geometry

TECHNICAL SPECIFICATIONS

General specifications

Nominal Diameter:	12 inch / 305 mm
Rated Impedance:	8 ohm
Program Power (watt):	1000 W
Power handling capacity:	500 W
Sensitivity:	98 dB
Frequency range:	50 - 3000 Hz
Effective piston diameter:	260 mm / 10.24 inch
Max. Excursion Before Damage:	34 mm / 1.34 inch
Minimum Impedance (ohm):	6 ohm
Voice Coil Diameter:	3.0 inch / 76 mm
Voice Coil Material:	Aluminium
Voice Coil Winding Material:	17 mm / 0.67 inch
Number of layers:	2
Kind of layers:	inside/outside
Top Plate Thickness:	10 mm / 0.39 inch
Cone Design:	Curved
Surround Material:	Polycotton
Surround Design:	M-roll
Magnets:	Neodymium
Dual-force air ventilation:	Yes
Spider:	Single

Thiele - small parameters

Resonance frequency (Fs):	54 Hz
DC resistance (Re) (ohm):	5.80 ohm
Mechanical factor:	3.10 Qms
Electrical factor:	0.26 Qes
Total factor:	0.24 Qts
Bl factor (Bl) (T x m):	19.00 T x m
Effective moving mass (Mms):	48 gr
Equivalent Cas air loaded (Vas):	71 liters
Effective piston area (Sd):	0.05 m ²
Max. linear excursion (Xmax):	6 mm
Voice coil inductance @ 1kHz (Le1k):	1.80 mH
Half-space efficiency (Eff):	4.00%

Mounting informations

Overall diameter:	320 mm / 12.6 inches
Bolt circle diameter:	295-304 mm / 11.61-11.97 inch
Bolt hole diameter:	6 mm / 0.24 inch
Front mount baffle cut-out:	288 mm / 11.34 inch
Rear mount baffle cut-out:	288 mm / 11.34 inch
Volume occupied by the driver:	2.2 liters / 0.09 ft ³

Standard compliance

CE marking:	Yes
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Size	Height:	146 mm / 5.75 inches
	Diameter:	320 mm / 12.6 inches
	Weight:	3.4 kg / 7.5 lbs

Shipping informations	Package Height:	194 mm / 7.64 inches
	Package Width:	364 mm / 14.33 inches
	Package Depth:	354 mm / 13.94 inches
	Package Weight:	4.2 kg / 9.26 lbs

PART NUMBER

- **11100071**
MB12N301
8ohm

