

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 Winding Material: | Aluminium |
| Voice Coil Length: | 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

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|--------------------------------|-----------------------------------|
| 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

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|-------------|-----|
| 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

