

# MR10N301

## MIDRANGE

### DESCRIPTION

The MR10N301 is a high efficiency, high power midrange specially designed to provide superior sound pressure level in a very compact size. The total weight is reduced to less than half of a comparable ceramic midrange thanks to an incredibly powerful neodymium magnet assembly. The unique sealed basket design doesn't require a back sealing chamber, simplifying the cabinet design and improving heat dissipation. Every detail of this speaker has been optimized to offer the best response and perfect control to the midrange frequencies.



### FEATURES

- 3-inch, finside/outside copper voice coil
- 600W continuous program power handling
- 102 dB Sensitivity in horn loaded application
- 150 Hz – 2 kHz Frequency range
- High BL neodymium design
- Unique aluminum sealed basket featuring vented fin heat dissipation design
- Calibrated back volume for a perfect time domain transient reproduction

## TECHNICAL SPECIFICATIONS

### General specifications

Nominal Diameter:	10 inch / 254 mm
Rated Impedance:	8 ohm
Program Power (watt):	600 W
Power handling capacity:	300 W
Sensitivity:	102.0 dB
Frequency range:	150 - 2000 Hz
Effective piston diameter:	210 mm / 8.27 inch
Max. Excursion Before Damage:	20 mm / 0.79 inch
Minimum Impedance (ohm):	9.0 ohm
Voice Coil Diameter:	3.0 inch / 76 mm
Voice Coil Winding Material:	Aluminium
Voice Coil Length:	11 mm / 0.43 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
Spider:	Single

### Thiele - small parameters

Resonance frequency (Fs):	250 Hz
DC resistance (Re) (ohm):	6.20 ohm
Mechanical factor:	6.48 Qms
Electrical factor:	0.72 Qes
Total factor:	0.65 Qts
Bl factor (Bl) (T x m):	20.70 T x m
Effective moving mass (Mms):	32.0 g
Equivalent Cas air loaded (Vas):	2.0 liters
Effective piston area (Sd):	0.040 m <sup>2</sup>
Max. linear excursion (Xmax):	1 mm
Voice coil inductance @ 1kHz (Le1k):	1.17 mH
Half-space efficiency (Eff):	9.26%

### Mounting informations

Overall diameter:	272 mm / 10.71 inches
Bolt circle diameter:	244 mm / 9.61 inch
Bolt hole diameter:	7 mm / 0.28 inch
Front mount baffle cut-out:	235 mm / 9.25 inch
Rear mount baffle cut-out:	232 mm / 9.13 inch
Volume occupied by the driver:	5 liters / 0.2 ft <sup>3</sup>

### Standard compliance

CE marking:	Yes
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### Size

Height:	142 mm / 5.59 inches
Diameter:	272 mm / 10.71 inches
Weight:	4.5 kg / 9.92 lbs

**Shipping informations**

Package Height:	170 mm / 6.69 inches
Package Width:	285 mm / 11.22 inches
Package Depth:	285 mm / 11.22 inches
Package Weight:	5 kg / 11.02 lbs

**PART NUMBER**

- **11100005**

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8ohm



