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 chember, simplifying the cabinet design and improving heat dissipation. Every detail of this speaker has been optimazed 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

Part Number

11100005	MR10N301	8ohm

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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	Aluminum
	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 m2
	Max. linear excursion (Xmax)	1 mm
	Voice coil inductance @ 1kHz (Le1k)	1.17 mH
	Half-space efficency (Eff)	9.26%
Mounting information	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 ft3
Standard compliance	Safety agency	CE compliant

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

Line Art 2D

