

# MB10N251

MID - BASS

## DESCRIPTION

The MB10N251 is a 10" neodymium mid-bass driver with an excellent linearity, good efficiency and high power handling capabilities. The 2,5" aluminium voice coil combined with a high strength fibreglass former allows high efficiency and good frequency response extension. Aluminium basket and magnetic assembly design provide an excellent heat dissipation and very low power compression.

The M-roll surround shape combined to spider design offer good linear displacement and precise low frequency reproduction.



## FEATURES

- 2.5-inch , fibreglass former, aluminum voice coil
- 600 Watt continuous program power handling
- 97 dB Sensitivity
- 50 Hz - 3.5kHz Frequency range
- Forced air ventilation
- M-roll surround and exponential cone geometry

## 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:	97.0 dB
Frequency range:	50 - 3500 Hz
Effective piston diameter:	210 mm / 8.27 inch
Max. Excursion Before Damage:	40 mm / 1.57 inch
Minimum Impedance (ohm):	6.4 ohm
Voice Coil Diameter:	2.5 inch / 63 mm
Voice Coil Winding Material:	Aluminium
Voice Coil Length:	14 mm / 0.55 inch
Number of layers:	1
Kind of layers:	outside
Top Plate Thickness:	9 mm / 0.35 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):	55 Hz
DC resistance (Re) (ohm):	5.10 ohm
Mechanical factor:	4.20 Qms
Electrical factor:	0.29 Qes
Total factor:	0.27 Qts
Bl factor (Bl) (T x m):	15.20 T x m
Effective moving mass (Mms):	36.0 g
Equivalent Cas air loaded (Vas):	39.0 liters
Effettive piston area (Sd):	0.040 m <sup>2</sup>
Max. linear excursion (Xmax):	5.0 mm
Voice coil inductance @ 1kHz (Le1k):	1.30 mH
Half-space efficiency (Eff):	2.20%

### Mounting informations

Overall diameter:	260 mm / 10.24 inches
Bolt circle diameter:	241-246 mm / 9.49-9.69 inch
Bolt hole diameter:	6 mm / 0.24 inch
Front mount baffle cut-out:	234 mm / 9.21 inch
Rear mount baffle cut-out:	234 mm / 9.21 inch
Volume occupied by the driver:	1.2 liters / 0.05 ft <sup>3</sup>

### Standard compliance

CE marking:	Yes
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### Physical specifications

Color:	Black
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<b>Size</b>	Height:	123 mm / 4.84 inches
	Diameter:	260 mm / 10.24 inches
	Weight:	2.5 kg / 5.51 lbs

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<b>Shipping informations</b>	Package Height:	180 mm / 7.09 inches
	Package Width:	290 mm / 11.42 inches
	Package Depth:	290 mm / 11.42 inches
	Package Weight:	3 kg / 6.61 lbs

## **PART NUMBER**

- **11100064**  
MB10N251  
8ohm



