

# MID-BASS MB15N351

Professional Low Frequency Transducer

The MB15N351 is designed to provide an excellent frequency response linearity with very low distortion. A very strong neodymium magnetic structure guarantee dynamic and precision, a new and unique 3,5" voice coil design provides a very high power handling, especially recommended in comparison to a standard 3" voice coil. The unique Dual-forced air venting system guarantee a very efficient voice coil ventilation to minimize the power compression and provide higher power handling.

PART NUMBER 11100025

## Features

- 3,5-inch, inside-outside copper voice coil
- 1300 Watt continuous program power handling
- 100 dB Sensitivity
- 40 Hz - 3 kHz Frequency range
- Dual-forced air ventilation for minimum power compression
- Dual spider design with silicon based damping control

## Applications

The MB15N351 is ideal for use in applications where is required a very high efficiency and linearity with high power handling. It's especially recommended for high powered multi-way system.



40 3000

20

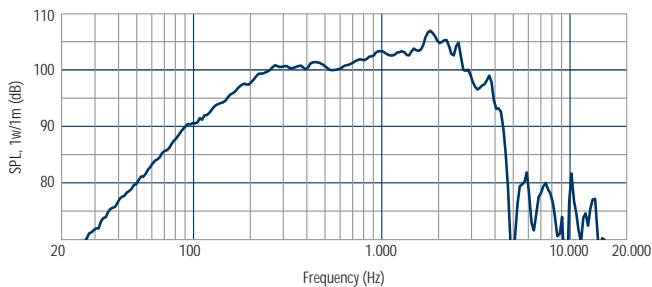
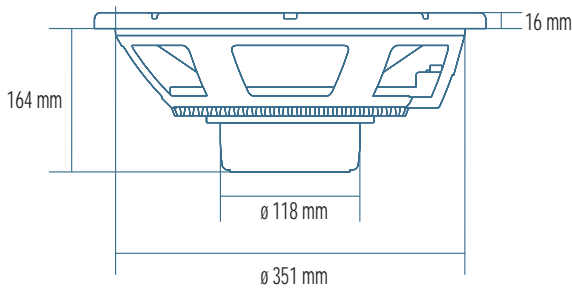
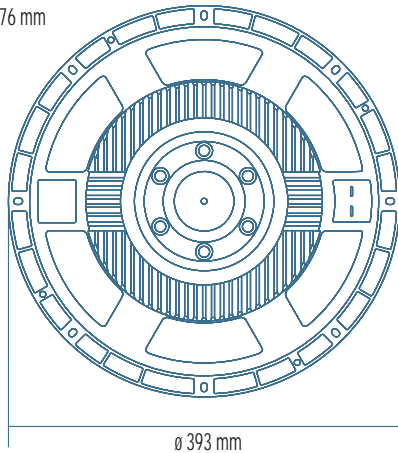
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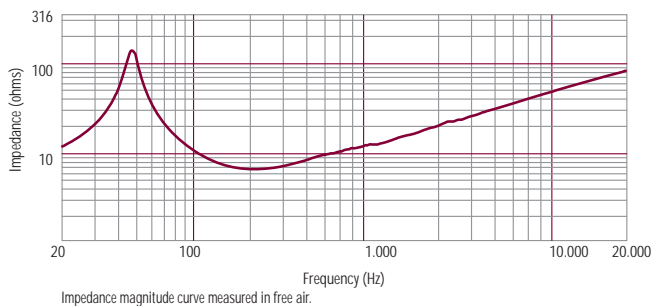
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8 x  $\phi$  6.5 mm holes to 45°  
on 371 and on 376 mm



Frequency response curve of the loudspeaker taken in a hemispherical, free field environment and mounted in a closed box with an internal volume of 600 litres (21.2 cu.ft) enclosing the rear of the driver.



Impedance magnitude curve measured in free air.

### Notes to Specifications

1 Program Power is defined as 3 dB greater than AES power. - 2 AES standard. - 3 Sensitivity measurement is based on a 500-2,5 kHz pink noise signal with input power of 2.83V @ 8 Ohms. - 4 Thiele-Small parameters are measured after a 2 hour warm up period running the loudspeaker at full power handling capacity. - 5 The maximum linear excursion is calculated as:  $(Hvc - Hg)/2 + Hg/4$  where Hvc is the voice coil depth and Hg the gap depth. - 6 Calculated for front mounting on 18 mm thick board.

### General Specifications

Nominal Diameter	380/15	mm/inch
Rated Impedance	8	ohm
Program Power <sup>1</sup>	1300	Watts
Power handling capacity <sup>2</sup>	650	Watts
Sensitivity <sup>3</sup>	100	dB
Frequency Range	40 - 3000	Hz
Effective Piston Diameter	330/13	mm/inch
Max Excursion Before Damage (peak to peak)	39/1.5	mm/inch
Minimum Impedance	6,8	ohm
Voice Coil Diameter	87/3.4	mm/inch
Voice Coil Material	Copper	
Voice Coil Winding Depth	16.5/0.65	mm/inch
Number of layers	2	
Kind of layer	inside/outside	
Top Plate Thickness	11/0.43	mm/inch
Cone Material	No pressed pulp	
Cone Design	Curved	
Surround Material	Polycotton	
Surround Design	M-roll	

### Thiele - Small Parameters <sup>4</sup>

Resonance frequency	Fs	42	Hz
DC resistance	Re	5.6	ohm
Mechanical factor	Qms	4.0	
Electrical factor	Qes	0.24	
Total factor	Qts	0.22	
BL Factor	BL	22.5	T · m
Effective Moving Mass	Mms	80	gr
Equivalent Cas air load	Vas	191	liters
Effettive piston area	Sd	0.0855	m <sup>2</sup>
Max. linear excursion (mathematical) <sup>5</sup>	Xmax	5.5	mm
Voice - coil inductance @ 1KHz	Le1K	1.65	mH
Half-space efficiency	Eff	5.68	%

### Mounting Information

Overall Diameter	393/15.5	mm/inch
Bolt Circle Diameter	371-376/14.6-14.8	mm/inch
Bolt Hole Diameter	6.5/0.3	mm/inch
Front Mount Baffle Cut-out	354/13.9	mm/inch
Rear Mount Baffle Cut-out	354/14.2	mm/inch
Depth	164/6.4	mm/inch
Volume occupied by the driver <sup>6</sup>	3.8/0.13	liters/ft3

### Shipping Information

Net Weight	5.0/11.0	Kg/Lbs
Shipping Weight	5.8/12.7	Kg/Lbs