

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**

- 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

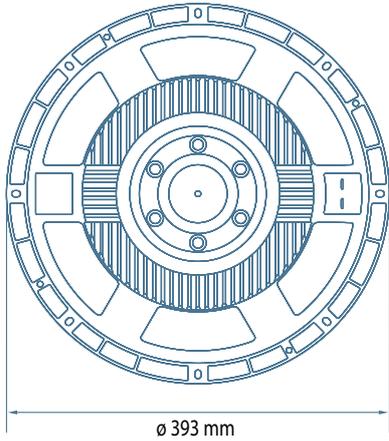
20

100

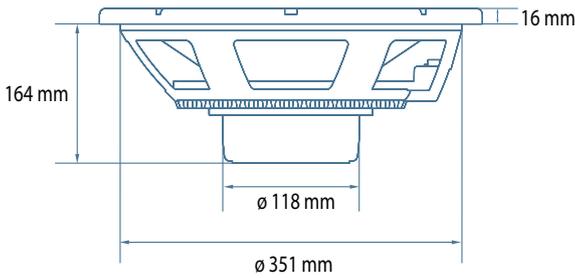
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10.000

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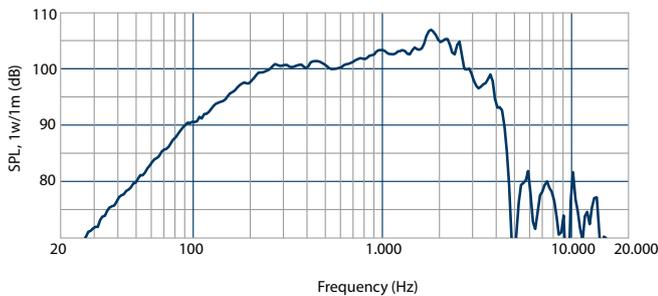
ø 393 mm



164 mm

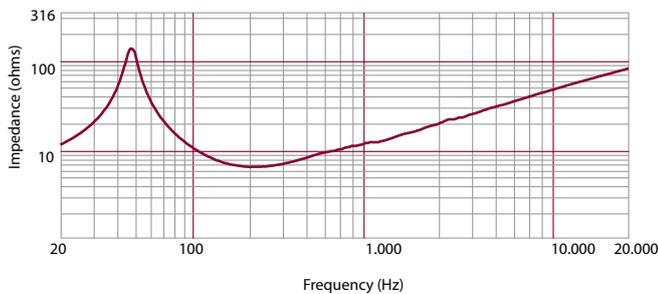
ø 118 mm

ø 351 mm



Frequency (Hz)

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



Frequency (Hz)

Impedance magnitude curve measured in free air

GENERAL SPECIFICATIONS

Nominal Diameter	380/15	mm/inch
Rated Impedance	8	ohm
Program Power ¹	1300	Watts
Power handling capacity ²	650	Watts
Sensitivity ³	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 ⁴

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 ²
Max. linear excursion (mathematical) ⁵	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 ⁶	3.8/0.13	liters/ft3

SHIPPING INFORMATION

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

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.

The data are not binding; RCF reserves the right to modify the data at any time and without previous notice.