# **MID-BASS MB15N405** Professional Low Frequency Transducer

The MB15N405 is a hypervented neo mid-bass design with a linear frequency response and very high efficiency.

To get this performance the magnetic structure use a high flux neo disc and the cone assembly a fibre loaded exponential shape along with a high excursion triple roll, constant geometry surround.

The fibreglass former and aluminium voice coil provide a very high power handling maintaining a light mass and a proper Q factor for bass alignment.

#### PART NUMBER 11100108

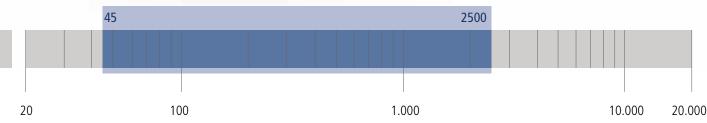
- 4-inch, fibreglass inside/outside aluminium voice coil
- 2200W continuous program power handling
- 100 dB Sensitivity
- 45 Hz 2.5 kHz Frequency range
- Hypervented for minimum power compression
- Triple roll surround and exponential cone geometry

#### APPLICATIONS

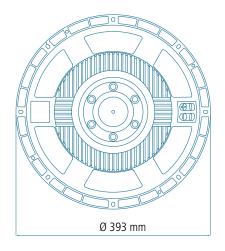
The MB15N405 is ideal where is required extremely high power handling, very high efficiency and perfect linearity.

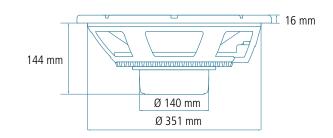
Is the ideal 15" mid-bass woofer for reference high fidelity, high performance mid-bass application in compact 2 way system.

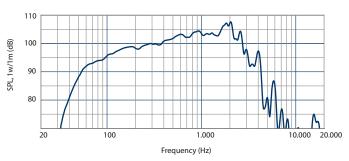




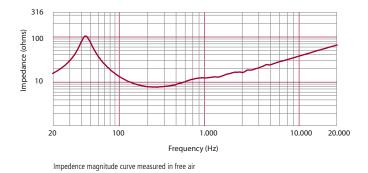








Frequency response curve of the loudspeaker make in a hemispherical, free field and mounted in a reflex box with an internal volume of 55 litres and tuned at 60Hz, applying a sinusoidal signal of 2.83 V @8 at 1m.



## **GENERAL SPECIFICATIONS**

Nominal Diameter	380 / 15	mm/inch
Rated Impedance	8	ohm
Program Power 1	2200	Watts
Power handling capacity <sup>2</sup>	1100	Watts
Sensitivity <sup>3</sup>	100	dB
Frequency Range	45 - 2500	Hz
Effective Piston Diameter	340 / 13,4	mm/inch
Max Excursion Before Damage (peak to peak)	53 / 2,08	mm/inch
Minimum Impedance	5,9	ohm
Voice Coil Diameter	100 / 4	mm/inch
Voice Coil Material	Aluminum	
Voice Coil Winding Depth	20 / 0,78	mm/inch
Number of layers	2	
Kind of layer	inside/outside	
Top Plate Thickness	12 / 0,47	mm/inch
Cone Material	No pressed pulp	
Cone Design	Curved	
Surround Material	Polycotton	
Surround Design	Triple - roll	

### **THIELE - SMALL PARAMETERS 4**

Resonance frequency	Fs	46	Hz
DC resistance	Re	5,5	ohm
Mechanical factor	Qms	4,8	
Electrical factor	Qes	0,28	
Total factor	Qts	0,27	
BL Factor	BL	23,5	Τ·m
Effective Moving Mass	Mms	98	gr
Equivalent Cas air load	Vas	124	liters
Effettive piston area	Sd	0,091	m <sup>2</sup>
Max. linear excursion (mathematical) 5	Xmax	7,0	mm
Voice - coil inductance @ 1KHz	Le1K	1,1	mH
Half-space efficiency	Eff	4,10	%

#### **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 / 0,25	mm/inch
Front Mount Baffle Cut-out	354 / 13,9	mm/inch
Rear Mount Baffle Cut-out	354 / 13,9	mm/inch
Depth	144 / 5,6	mm/inch
Volume occupied by the driver 6	3,8 / 0,13	liters/ft3

### **SHIPPING INFORMATION**

Net Weight	8,6 / 19,1	Kg/Lbs
Shipping Weight	9,3 / 20,7	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.