

PART NUMBER **11100108**

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.

Features

- 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

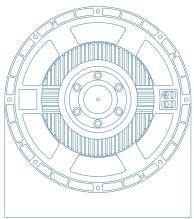
Applications

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

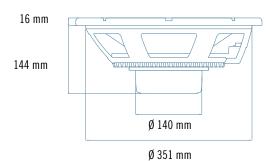
Is the ideal 15" mid-bass woofer for reference high fidelity, high performance mid-bass application in compact 2 way system.

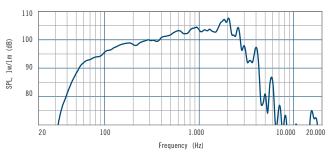




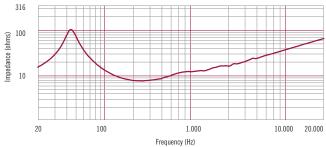


Ø 393 mm





Frequency response curve of the loudspeaker made in a hemispherical, free field and mounted in a reflex box with an internal volume of 50 litres and tuned at 60Hz, applying a sinusoidal signal of $2.83\,V@8$ at $1\,m$.



Impedance magnitude curve measured in free air.

General Specifications

Nominal Diameter	380 / 15	mm/inch
Rated Impedance	8	ohm
Program Power ¹	2200	Watts
Power handling capacity ²	1100	Watts
Sensitivity ³	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 Parameters⁴

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	T · m
Effective Moving Mass	Mms	98	gr
Equivalent Cas air load	Vas	124	liters
Effettive piston area	Sd	0,091	m²
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.