MID-BASS **MB15X301** Professional Low Frequency Transducer

The MB15X301 is designed to provide an excellent frequency response linearity with very low distortion. A strong magnetic structure guarantee dynamic and precision. The new dual forced hyper-venting system guarantee a very efficient voice coil ventilation for minimum power compression and incredible power handling. Triple roll surround and spider design offer great linearity and precise reproduction.

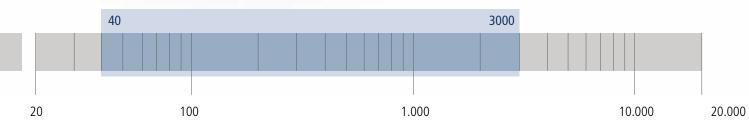
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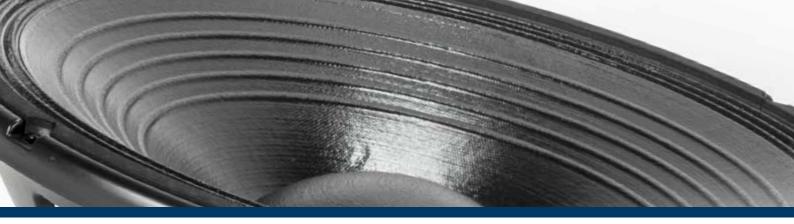
- 3-inch, fibreglass inside/outside aluminium voice coil
- 1000W continuous program power handling
- 98.5 dB Sensitivity
- 40 Hz 3.0 kHz Frequency range
- Hypervented for minimum power compression
- Triple roll surround and exponential cone geometry

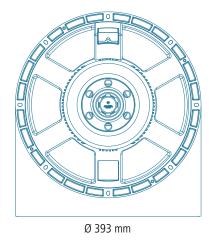
APPLICATIONS

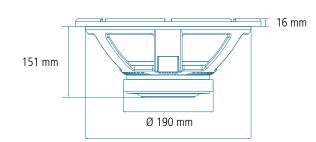
A light moving mass, a curve response linear above 3.0 kHz makes the MB15X301 a very good solution for high quality two way systems. The 3.0" copper voice coil guarantee a very high power handling and perfect low frequency control.



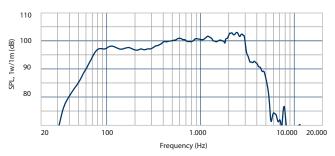




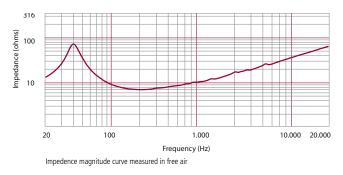








Frequency response curve of the loudspeaker make in a hemispherical, free field and mounted in a reflex box with an internal volume of 55 litres and tuned at 60Hz, applying a sinusoidal signal of 2.83 V @8 at 1m.



GENERAL SPECIFICATIONS

Nominal Diameter	380 / 15	mm/inch
Rated Impedance	8	ohm
Program Power 1	1000	Watts
Power handling capacity ²	500	Watts
Sensitivity ³	98,5	dB
Frequency Range	40-3000	Hz
Effective Piston Diameter	330 / 13	mm/inch
Max Excursion Before Damage (peak to peak)	40 / 1,57	mm/inch
Minimum Impedance	6,5	ohm
Voice Coil Diameter	76 / 3,0	mm/inch
Voice Coil Material	Aluminum	
Voice Coil Winding Depth	17 / 0,66	mm/inch
Number of layers	2	
Kind of layer	inside/outside	
Top Plate Thickness	10 / 0,39	mm/inch
Cone Material	No pressed pulp	
Cone Design	Curved	
Surround Material	Polycotton	
Surround Design	Triple-roll	

THIELE - SMALL PARAMETERS 4

Resonance frequency	Fs	38	Hz
DC resistance	Re	5,4	ohm
Mechanical factor	Qms	5,0	
Electrical factor	Qes	0,37	
Total factor	Qts	0,34	
BL Factor	BL	18	Τ·m
Effective Moving Mass	Mms	91,5	gr
Equivalent Cas air load	Vas	195	liters
Effettive piston area	Sd	0,086	m ²
Max. linear excursion (mathematical) ⁵	Xmax	6,0	mm
Voice - coil inductance @ 1KHz	Le	0,52	mH
Half-space efficiency	Eff	2,80	%
Halt-space efficiency	Ett	2,80	%

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	151 / 5,94	mm/inch
Volume occupied by the driver 6	4,5 / 0,153	liters/ft3

SHIPPING INFORMATION

Net Weight	8,2 / 18,04	Kg/Lbs
Shipping Weight	9,0 / 19,80	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.