MID-BASS

MB12G301

Professional Low Frequency Transducer

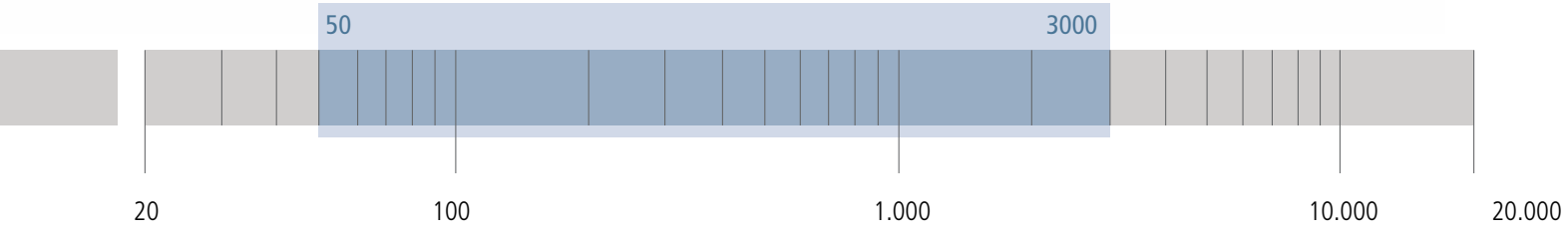
High efficiency 12" mid-bass. Very high sensitivity, excellent linearity and very low distortion.
Voice coil construction, suspensions and cone materials designed to survive at 400 Watt RMS power.

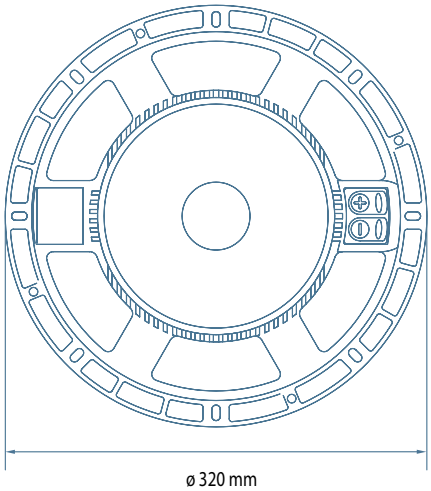
PART NUMBER **11100017**

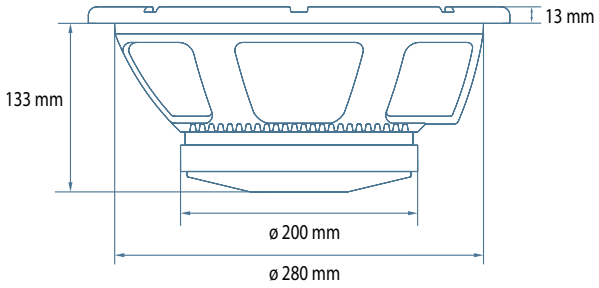
- 3-inch inside-outside aluminum voice coil
- 800 Watt continuous program power handling
- 98 dB Sensitivity
- 50 Hz - 3 kHz Frequency range
- M-roll surround and exponential cone geometry

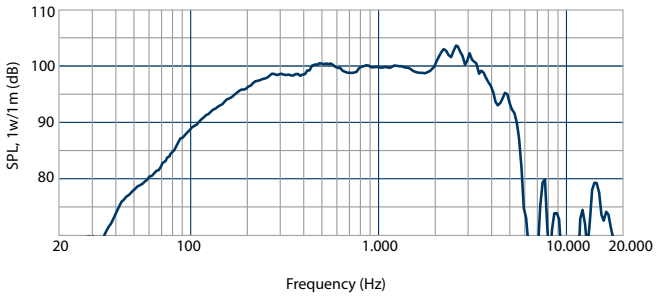
APPLICATIONS

A very light moving mass, a curve response linear above 3 kHz makes the MB12G301 a very good solution for high quality two or three way system.
The aluminum voice coil guarantee a very high efficiency in conjunction to a proper Q factor for a good bass response.

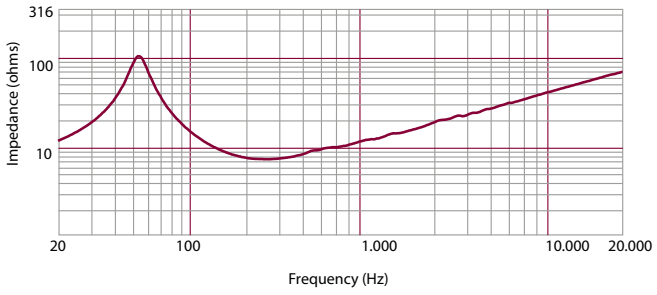








Frequency response curve of the loudspeaker taken in a hemispherical, free field environment and mounted in a closed box with an internal volume of 600 litres (21,2 cu.ft) enclosing the rear of the driver



Impedence magnitude curve measured in free air

GENERAL SPECIFICATIONS

Nominal Diameter	300/12	mm/inch
Rated Impedance	8	ohm
Program Power [1]	800	Watts
Power handling capacity [2]	400	Watts
Sensitivity [3]	98	dB
Frequency Range	50 - 3000	Hz
Effective Piston Diameter	260/10.2	mm/inch
Max Excursion Before Damage (peak to peak)	38/1.49	mm/inch
Minimum Impedance	7.2	ohm
Voice Coil Diameter	76/3	mm/inch
Voice Coil Material	aluminum	
Voice Coil Winding Depth	16/0.6	mm/inch
Number of layers	2	
Kind of layer	inside/outside	
Top Plate Thickness	10/0.4	mm/inch
Cone Material	No pressed pulp	
Cone Design	Curved	
Surround Material	Polycotton	
Surround Design	M - roll	

THIELE - SMALL PARAMETERS [4]

Resonance frequency	Fs	53	Hz
DC resistance	Re	5.4	ohm
Mechanical factor	Qms	4.7	
Electrical factor	Qes	0.28	
Total factor	Qts	0.27	
BL Factor	BL	17	T · m
Effective Moving Mass	Mms	48	gr
Equivalent Cas air load	Vas	72	liters
Effettive piston area	Sd	0.053	m^2
Max. linear excursion (mathematical) [5]	Xmax	5.5	mm
Voice - coil inductance @ 1KHz	Le	0.7	mH
Half-space efficiency	Eff	3.69	%

MOUNTING INFORMATION

Overall Diameter	320/12.6	mm/inch
Bolt Circle Diameter	293,5-304/11.5-12	mm/inch
Bolt Hole Diameter	6.5/0.3	mm/inch
Front Mount Baffle Cut-out	282/11.1	mm/inch
Rear Mount Baffle Cut-out	284/11.2	mm/inch
Depth	133/5.23	mm/inch
Volume occupied by the driver [6]	2.6/0.09	liters/ft3

SHIPPING INFORMATION

Net Weight	7.3/16.2	Kg/Lbs
Shipping Weight	8.1/18.0	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.