

# MID-BASS MB8G200

Professional Low Frequency Transducer

The MBG200 is a professional mid-bass woofer featuring very high output and dynamics. The equipment, used a 2" coil, fiberglass former and copper inside/outside winding, has enabled a very good transient peak response and has allowed good extension on mid-high frequencies. A specially designed M-roll surround guarantee a very low midrange distortion and perfect damping of the spurious resonances. Inverted dust cap for minimum cone break-up.

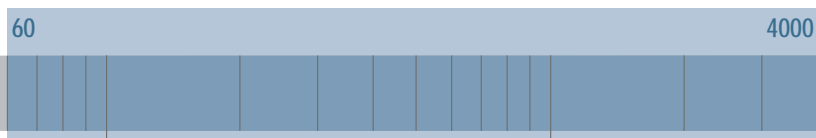
PART NUMBER 11100018

## Features

- 2-inch, fiber glass former, copper voice coil
- 400 Watt continuous program power handling
- 94 dB Sensitivity
- 60 Hz - 4 kHz Frequency range
- Exponential, high strength
- M-roll damped surround

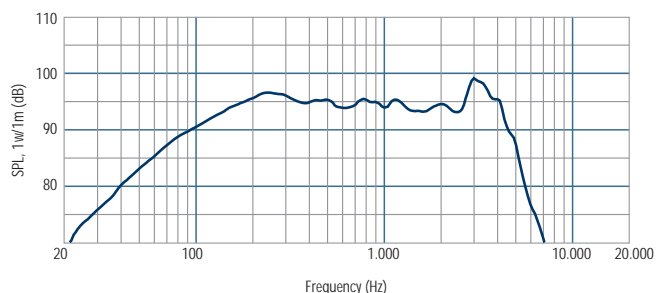
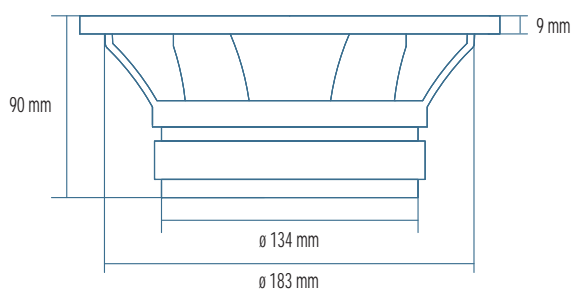
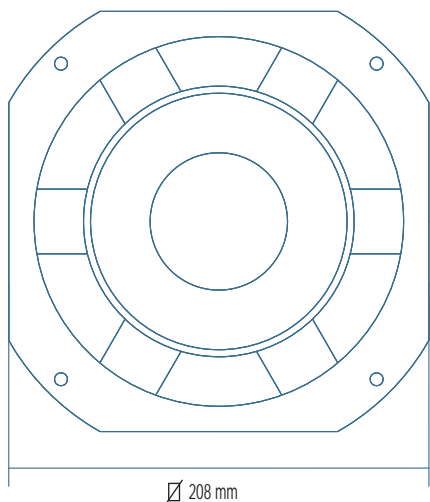
## Applications

The MBG200 is the ideal low frequency transducer for very compact, high efficiency, bass reflex systems where the maximum dynamic is required. Specially designed for 2 way satellite systems.

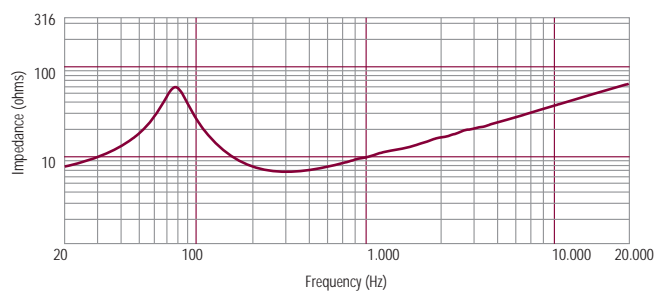




4 holes  $\varnothing$  6,5 mm  
on  $\varnothing$  221 mm



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.



Impedance magnitude curve measured in free air.

## 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 200-2 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.

## General Specifications

|  |                 |         |
|--|-----------------|---------|
| Nominal Diameter                           | 200/8           | mm/inch |
| Rated Impedance                            | 8               | ohm     |
| Program Power <sup>1</sup>                 | 400             | Watts   |
| Power handling capacity <sup>2</sup>       | 200             | Watts   |
| Sensitivity <sup>3</sup>                   | 94              | dB      |
| Frequency Range                            | 60 - 4000       | Hz      |
| Effective Piston Diameter                  | 165/6.5         | mm/inch |
| Max Excursion Before Damage (peak to peak) | 30/1.2          | mm/inch |
| Minimum Impedance                          | 6.2             | ohm     |
| Voice Coil Diameter                        | 51/2            | mm/inch |
| Voice Coil Material                        | Copper          |         |
| Voice Coil Winding Depth                   | 16/0.6          | mm/inch |
| Number of layers                           | 2               |         |
| Kind of layer                              | outside         |         |
| Top Plate Thickness                        | 8/0.3           | mm/inch |
| Cone Material                              | No pressed pulp |         |
| Cone Design                                | Curved          |         |
| Surround Material                          | Polycotton      |         |
| Surround Design                            | M - roll        |         |

## Thiele - Small Parameters <sup>4</sup>

|   |      |       |                |
|---|------|-------|----------------|
| Resonance frequency                               | Fs   | 76    | Hz             |
| DC resistance                                     | Re   | 4.8   | ohm            |
| Mechanical factor                                 | Qms  | 3.7   |                |
| Electrical factor                                 | Qes  | 0.37  |                |
| Total factor                                      | Qts  | 0.33  |                |
| BL Factor   | BL   | 12.5  | T · m          |
| Effective Moving Mass                             | Mms  | 25    | gr             |
| Equivalent Cas air load                           | Vas  | 11    | liters         |
| Effettive piston area                             | Sd   | 0.021 | m <sup>2</sup> |
| Max. linear excursion (mathematical) <sup>5</sup> | Xmax | 6.0   | mm             |
| Voice - coil inductance @ 1KHz                    | Le1K | 1.4   | mH             |
| Half-space efficiency                             | Eff  | 1.26  | %              |

## Mounting Information

|  |          |            |
|--|----------|------------|
| Overall Diameter                           | 239/9.4  | mm/inch    |
| Bolt Circle Diameter                       | 221/8.7  | mm/inch    |
| Bolt Hole Diameter                         | 6.5/0.3  | mm/inch    |
| Front Mount Baffle Cut-out                 | 184/7.24 | mm/inch    |
| Rear Mount Baffle Cut-out                  | 184/7.24 | mm/inch    |
| Depth                                      | 95/3.7   | mm/inch    |
| Volume occupied by the driver <sup>6</sup> | 0.8/0.03 | liters/ft3 |

## Shipping Information

|                 |         |        |
|-----------------|---------|--------|
| Net Weight      | 3.1/6.8 | Kg/Lbs |
| Shipping Weight | 3.3/7.3 | Kg/Lbs |