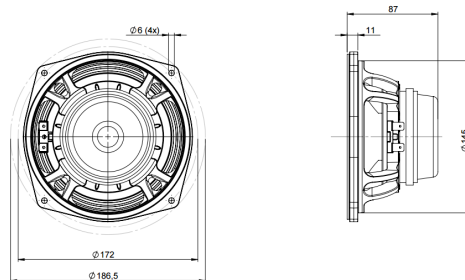


6MBX44

16Ω**LF Drivers - 6.5 Inches**

- 400 W continuous program power capacity
- 44 mm (1.7 in) aluminium voice coil
- 115 - 5000 Hz response
- 98 dB sensitivity
- Neodymium magnet allows a very light yet powerful motor assembly
- Aluminium ring allows a very low distortion figure

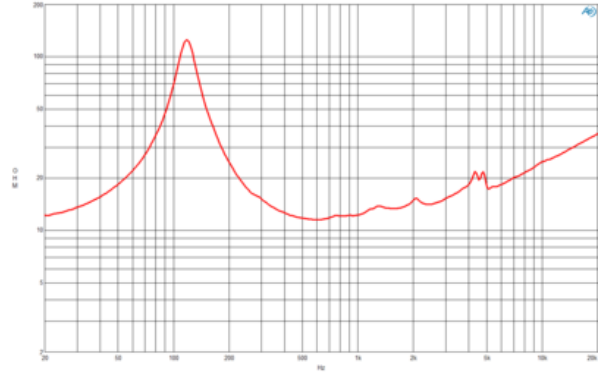
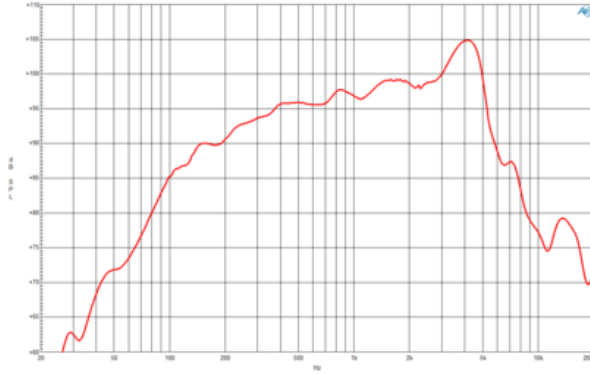


Description

The MBX series mid-bass woofers from B&C Speakers offer acoustic designers a new range of high efficiency, wide bandwidth alternatives that are not currently available in the B&C range. These full-featured transducers incorporate lightweight neodymium motors, inside/outside wound copper clad aluminum wire voice coils, weatherproof impregnated paper cones, and a symmetrical inductance profile. The MBX Series is especially well suited for two-way loudspeaker enclosures.

6MBX44

LF Drivers- 6.5 Inches



SPECIFICATIONS

| | |
|--|-------------------|
| Nominal Diameter | 170 mm (6.5 in) |
| Nominal Impedance | 16 Ω |
| Minimum Impedance | 11.9 Ω |
| Nominal Power Handling ¹ | 200 W |
| Continuous Power Handling ² | 400 W |
| Sensitivity ³ | 98.0 dB |
| Frequency Range | 115 - 5000 Hz |
| Voice Coil Diameter | 44 mm (1.7 in) |
| Winding Material | Aluminium |
| Former Material | Glass Fibre |
| Winding Depth | 10.0 mm (0.37 in) |
| Magnetic Gap Depth | 6.0 mm (0.25 in) |
| Flux Density | 1.55 T |

DESIGN

| | |
|-----------------------|---|
| Surround Shape | Triple Roll |
| Cone Shape | Exponential |
| Magnet Material | Neodymium Ring |
| Spider | Single |
| Pole Design | T-Pole |
| Woofer Cone Treatment | Waterproof Impregnated Cone |
| Recommended Enclosure | 3.0 dm ³ (0.11 ft ³) |
| Recommended Tuning | 120 Hz |

PARAMETERS⁴

| | |
|---------------------|--|
| Resonance Frequency | 115 Hz |
| Re | 10.4 Ω |
| Qes | 0.41 |
| Qms | 2.9 |
| Qts | 0.35 |
| Vas | 4.0 dm ³ (0.14 ft ³) |
| Sd | 132.0 cm ² (20.46 in ²) |
| η_0 | 1.4 % |
| Xmax | 3.5 mm |
| Maximum Excursion | 3.0 mm |
| Mms | 12.0 g |
| Bl | 14.7 Txm |
| Le | 0.34 mH |
| EBP | 280 Hz |

MOUNTING AND SHIPPING INFO

| | |
|-------------------------------|---|
| Overall Diameter | 187 mm (7.36 in) |
| Bolt Circle Diameter | 172 mm (6.7 in) |
| Baffle Cutout Diameter | 145.0 mm (5.7 in) |
| Depth | 87 mm (3.43 in) |
| Flange and Gasket Thickness | 11 mm (0.4 in) |
| Air Volume Occupied by Driver | 0.6 dm ³ (0.02 ft ³) |
| Net Weight | 1.5 kg (3.31 lb) |
| Shipping Units | 1 |
| Shipping Weight | 1.75 kg (3.86 lb) |
| Shipping Box | 221x214x130 mm (8.7x8.4x5.1 in) |

SERVICE KIT

RCK06MBX4416

1. 2 hours test made with continuous pink noise signal within the range Fs-10Fs. Power calculated on rated nominal impedance. Loudspeaker in free air.
2. Power on Continuous Program is defined as 3 dB greater than the Nominal rating.
3. Applied RMS Voltage is set to 4V for 16 ohm Nominal Impedance
4. Thiele-Small parameters are measured after a high level 20 Hz sine wave preconditioning test.