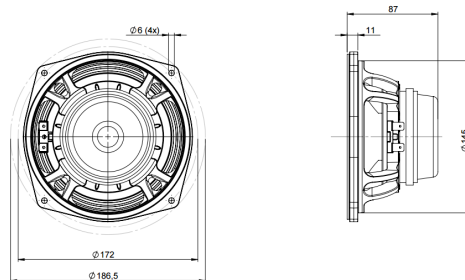


# 6MBX44

**16Ω****LF Drivers** - 6.5 Inches

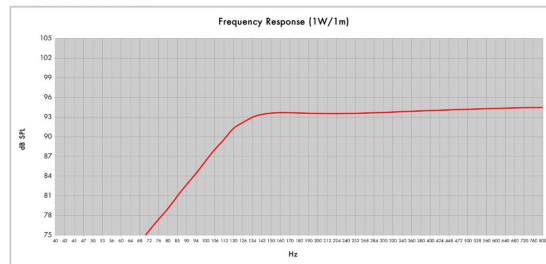
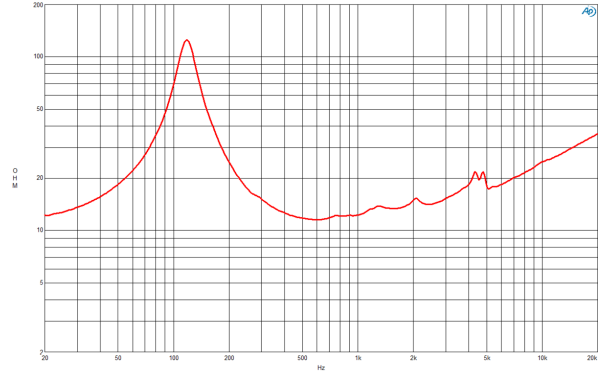
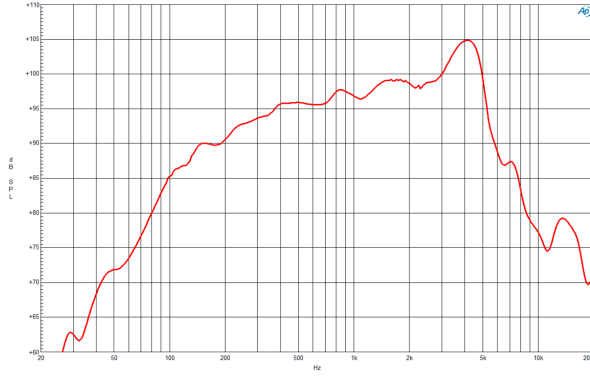
- 400 W continuous program power capacity
- 44 mm (1.7 in) aluminium voice coil
- 115 - 5000 Hz response
- 98 dB sensitivity
- Neodymium magnet allows a very light yet powerful motor assembly
- Aluminium ring allows a very low distortion figure



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



Model: **6MBX44**  
 Enclosure Type: **Box Reflex** Configuration: **One Driver**  
 Internal Net Volume (liters): **3** Q<sub>ts</sub>: **7**  
 Tuning Frequency (Hz): **120** Port Area (cm<sup>2</sup>): **25.0**  
 Frequency (3 dB) (Hz): **123.0** Port Length (cm): **12.5**  
 Frequency (10 dB) (Hz): **95.3**

### SPECIFICATIONS

Nominal Diameter	170 mm (6.5 in)
Nominal Impedance	16 Ω
Minimum Impedance	11.9 Ω
Nominal Power Handling <sup>1</sup>	200 W
Continuous power handling <sup>2</sup>	400 W
Sensitivity (1W/1m) <sup>3</sup>	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 <sup>3</sup> (0.11 ft <sup>3</sup> )
Recommended Tuning	120 Hz

### PARAMETERS<sup>4</sup>

Resonance Frequency	115 Hz
Re	10.4 Ω
Q <sub>es</sub>	0.41
Q <sub>ms</sub>	2.9
Q <sub>ts</sub>	0.35
V <sub>as</sub>	4.0 dm <sup>3</sup> (0.14 ft <sup>3</sup> )
S <sub>d</sub>	132.0 cm <sup>2</sup> (20.46 in <sup>2</sup> )
η <sub>o</sub>	1.4 %
X <sub>max</sub>	± 3.5 mm
X <sub>var</sub>	± 3.0 mm
M <sub>ms</sub>	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 <sup>3</sup> (0.02 ft <sup>3</sup> )
Net Weight	1.59 kg (3.51 lb)
Shipping Units	1
Shipping Weight	1.79 kg (3.95 lb)
Shipping Box	210x210x125 mm (8.27x8.27x4.92 in)

**SERVICE KIT**

Recone kit	RCK06MBX4416
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1. 2 hours test made with continuous pink noise signal within the range Fs-10Fs. Power calculated on rated minimum 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.