

**8MBX51** 8 Ω

## Mid-Bass

- 400 W continuous program power capacity
- 51 mm (2 in) aluminium voice coil
- 60 - 4000 Hz response
- 96.5 dB sensitivity
- Neodymium ring magnet assembly
- Aluminium ring allows a very low distortion figure
- Ventilated voice coil gap for reduced power compression

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.



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**SPECIFICATIONS**

Nominal Diameter	<b>200 mm (8 in)</b>
Nominal Impedance	<b>8 Ω</b>
Minimum Impedance	<b>5.9 Ω</b>
Nominal Power Handling	<b>200 W</b>
2 hours test made with continuous pink noise signal within the range Fs-10Fs. Power calculated on rated minimum impedance. Loudspeaker in free air.	
Continuous Power Handling	<b>400 W</b>
Power on Continuous Program is defined as 3 dB greater than the Nominal rating.	
Sensitivity	<b>96.5 dB</b>
Applied RMS Voltage is set to 2.83 V for 8 ohms Nominal Impedance.	
Frequency Range	<b>60 Hz - 4000 Hz</b>
Voice Coil Diameter	<b>51 mm (2 in)</b>
Winding Material	<b>Aluminium</b>
Former Material	<b>Glass Fibre</b>
Winding Depth	<b>15 mm (0.59 in)</b>
Magnetic Gap Depth	<b>7 mm (0.28 in)</b>
Flux Density	<b>1.3 T</b>
Woofer Cone Treatment	<b>Waterproof Impregnated Cone</b>

**PARAMETERS**

Thiele-Small parameters are measured after a high level 20 Hz sine wave preconditioning test.

Fs	<b>60 Hz</b>
Re	<b>4.9 Ω</b>
Qes	<b>0.31</b>
Qms	<b>5.6</b>
Qts	<b>0.29</b>
Vas	<b>23 dm<sup>3</sup> (0.81 ft<sup>3</sup>)</b>
Sd	<b>220 cm<sup>2</sup> (34.1 in<sup>2</sup>)</b>
η <sub>0</sub>	<b>1.7 %</b>
X <sub>max</sub>	<b>6 mm</b>
X <sub>var</sub>	<b>8 mm</b>
M <sub>ms</sub>	<b>20 g</b>
Bl	<b>11.4 Tm</b>
Le	<b>0.4 mH</b>
EBP	<b>194 Hz</b>

**DESIGN**

Surround Shape	<b>Triple Roll</b>
Cone Shape	<b>Curvilinear</b>
Magnet Material	<b>Neodymium Ring</b>
Spider	<b>Single</b>
Pole Design	<b>T-Pole</b>
Woofer Cone Treatment	<b>Waterproof Impregnated Cone</b>
Recommended Enclosure	<b>19 dm<sup>3</sup> (0.67 ft<sup>3</sup>)</b>
Recommended Tuning	<b>63 Hz</b>

**MOUNTING AND SHIPPING INFO**

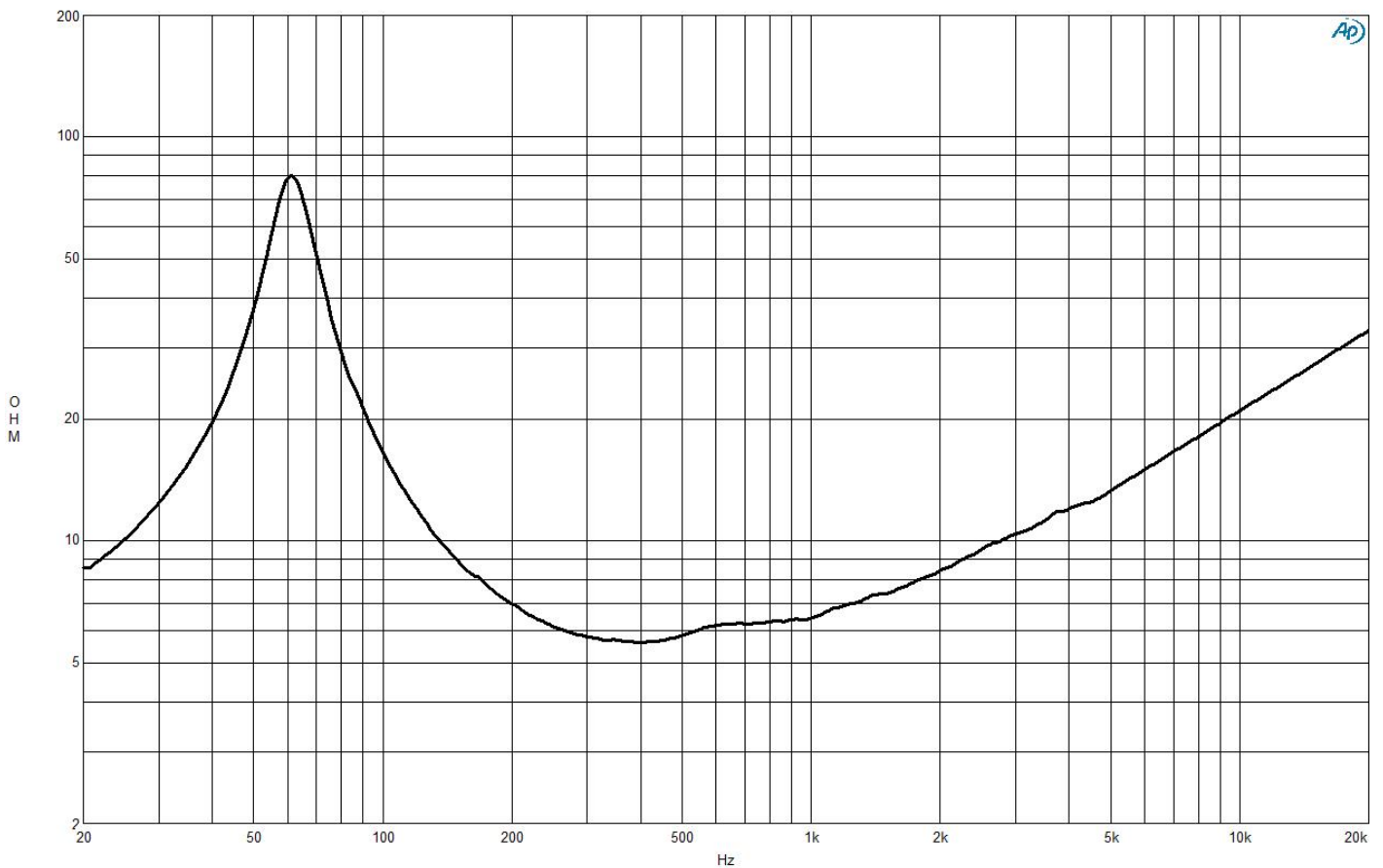
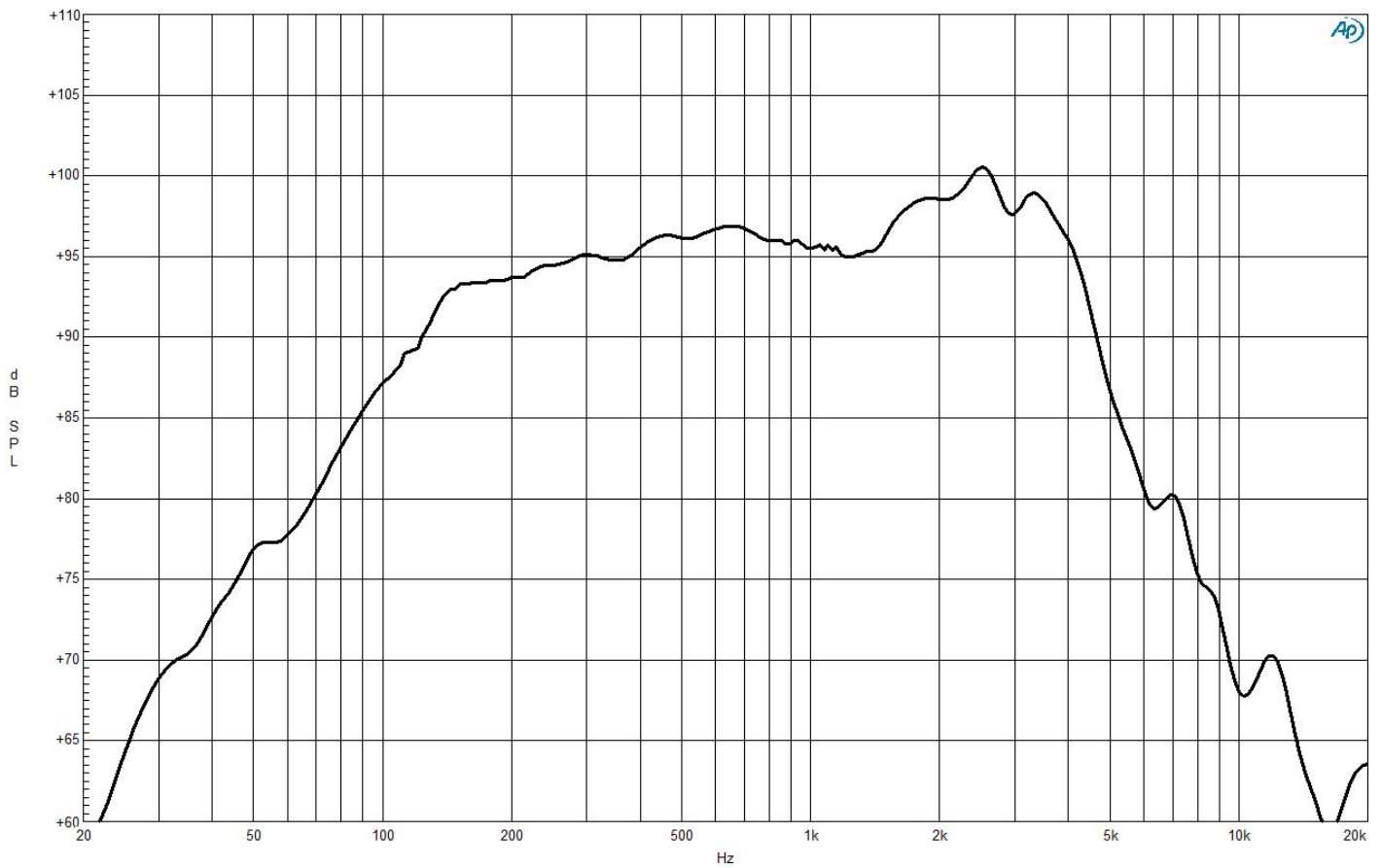
Overall Diameter	<b>225 mm (8.86 in)</b>
Bolt Circle Diameter	<b>210 mm (8.27 in)</b>
Baffle Cutout Diameter	<b>187 mm (7.36 in)</b>
Depth	<b>93 mm (3.66 in)</b>
Flange and Gasket Thickness	<b>9 mm (0.35 in)</b>
Air Volume Occupied by Driver	<b>1.1 dm<sup>3</sup> (0.04 ft<sup>3</sup>)</b>
Net Weight	<b>1.8 kg (3.97 lb)</b>
Shipping Units	<b>1 pcs</b>
Shipping Weight	<b>2.25 kg (4.96 lb)</b>
Shipping Box	<b>255x255x150 mm (10.04x10.04x5.91 in)</b>

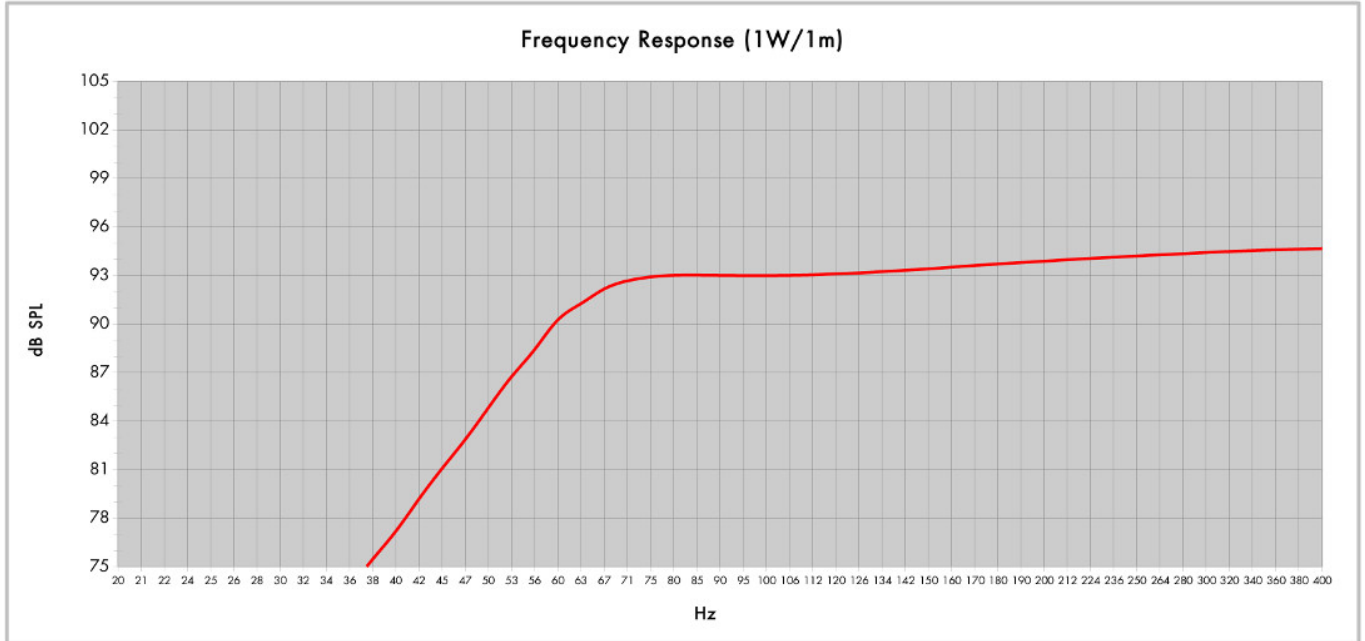
**SERVICE KITS**

LF recone-kits	<b>RCK008MBX518</b>
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Model:	<b>8MBX51</b>	Configuration:	<b>One Driver</b>
Enclosure Type:	<b>Bass Reflex</b>		
Internal Net Volume (Litres):	<b>19</b>	QB:	<b>7</b>
Tuning Frequency (Hz):	<b>63</b>	Port Area (cm <sup>2</sup> ):	<b>50,0</b>
Frequency (-3 dB) (Hz):	<b>66,4</b>	Port Length (cm):	<b>13,0</b>
Frequency (-10 dB) (Hz):	<b>50,3</b>		

