

**6MBX44** 8 Ω

## Mid-Bass

- 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.



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**SPECIFICATIONS**

Nominal Diameter	<b>170 mm (6.5 in)</b>
Nominal Impedance	<b>8 Ω</b>
Minimum Impedance	<b>6 Ω</b>
Nominal Power Handling	<b>200 W</b>
<small>2 hours test made with continuous pink noise signal within the range Fs-10Fs. Power calculated on rated minimum impedance. Loudspeaker in free air.</small>	
Continuous Power Handling	<b>400 W</b>
<small>Power on Continuous Program is defined as 3 dB greater than the Nominal rating.</small>	
Sensitivity	<b>98 dB</b>
<small>Applied RMS Voltage is set to 2.83 V for 8 ohms Nominal Impedance.</small>	
Frequency Range	<b>115 Hz - 5000 Hz</b>
Voice Coil Diameter	<b>44 mm (1.7 in)</b>
Winding Material	<b>Aluminium</b>
Former Material	<b>Glass Fibre</b>
Winding Depth	<b>10 mm (0.37 in)</b>
Magnetic Gap Depth	<b>6 mm (0.25 in)</b>
Flux Density	<b>1.55 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>113 Hz</b>
Re	<b>5.4 Ω</b>
Qes	<b>0.34</b>
Qms	<b>3.9</b>
Qts	<b>0.31</b>
Vas	<b>4.1 dm<sup>3</sup> (0.14 ft<sup>3</sup>)</b>
Sd	<b>132 cm<sup>2</sup> (20.46 in<sup>2</sup>)</b>
η <sub>0</sub>	<b>1.4 %</b>
X <sub>max</sub>	<b>3.5 mm</b>
X <sub>var</sub>	<b>3 mm</b>
M <sub>ms</sub>	<b>12 g</b>
Bl	<b>11.7 Tm</b>
Le	<b>0.2 mH</b>
EBP	<b>332 Hz</b>

**DESIGN**

Surround Shape	<b>Triple Roll</b>
Cone Shape	<b>Exponential</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>3 dm<sup>3</sup> (0.11 ft<sup>3</sup>)</b>
Recommended Tuning	<b>120 Hz</b>

**MOUNTING AND SHIPPING INFO**

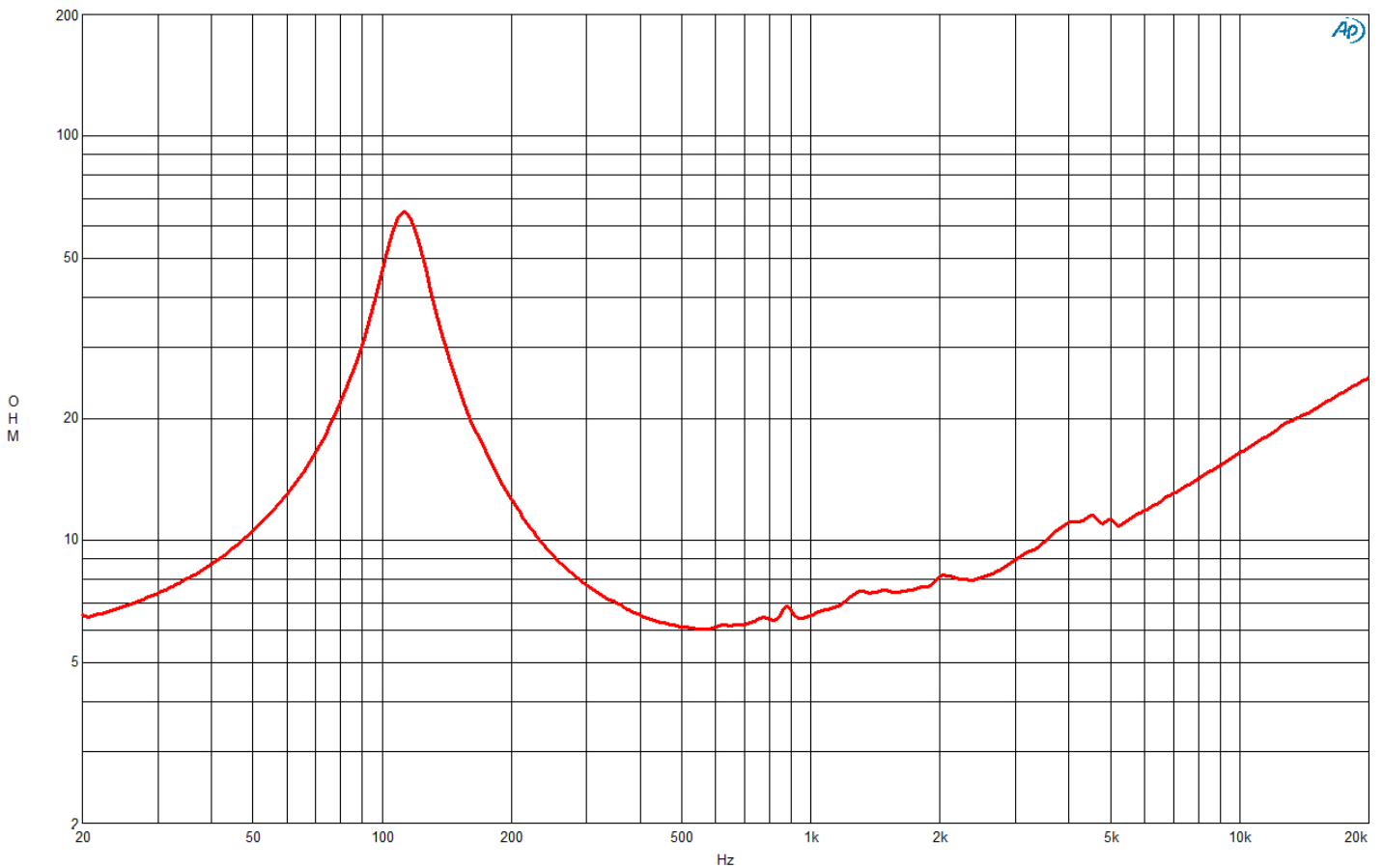
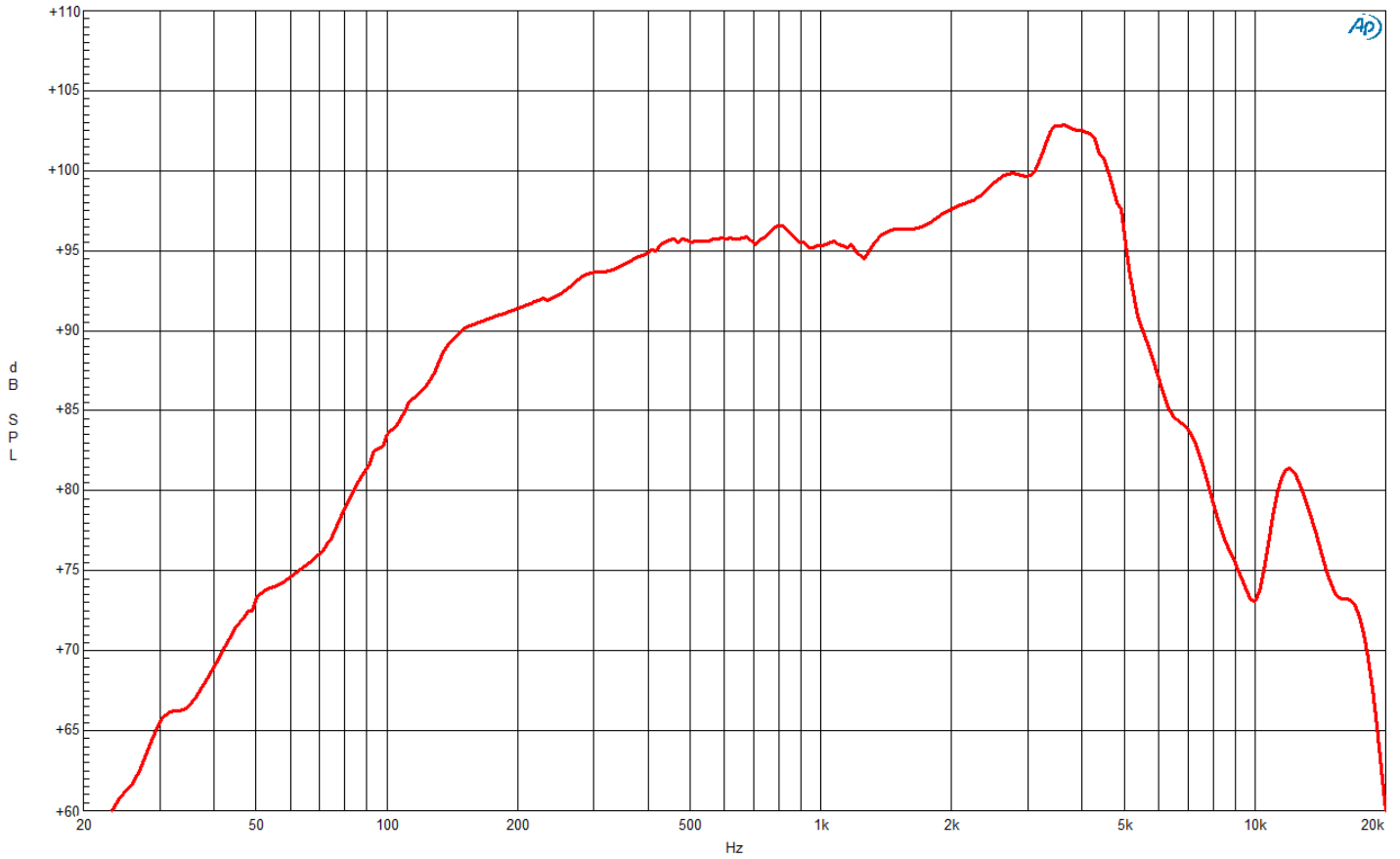
Overall Diameter	<b>187 mm (7.36 in)</b>
Bolt Circle Diameter	<b>172 mm (6.7 in)</b>
Baffle Cutout Diameter	<b>145 mm (5.7 in)</b>
Depth	<b>87 mm (3.43 in)</b>
Flange and Gasket Thickness	<b>11 mm (0.4 in)</b>
Air Volume Occupied by Driver	<b>0.6 dm<sup>3</sup> (0.02 ft<sup>3</sup>)</b>
Net Weight	<b>1.59 kg (3.51 lb)</b>
Shipping Units	<b>1 pcs</b>
Shipping Weight	<b>1.79 kg (3.95 lb)</b>
Shipping Box	<b>210x210x125 mm (8.27x8.27x4.92 in)</b>

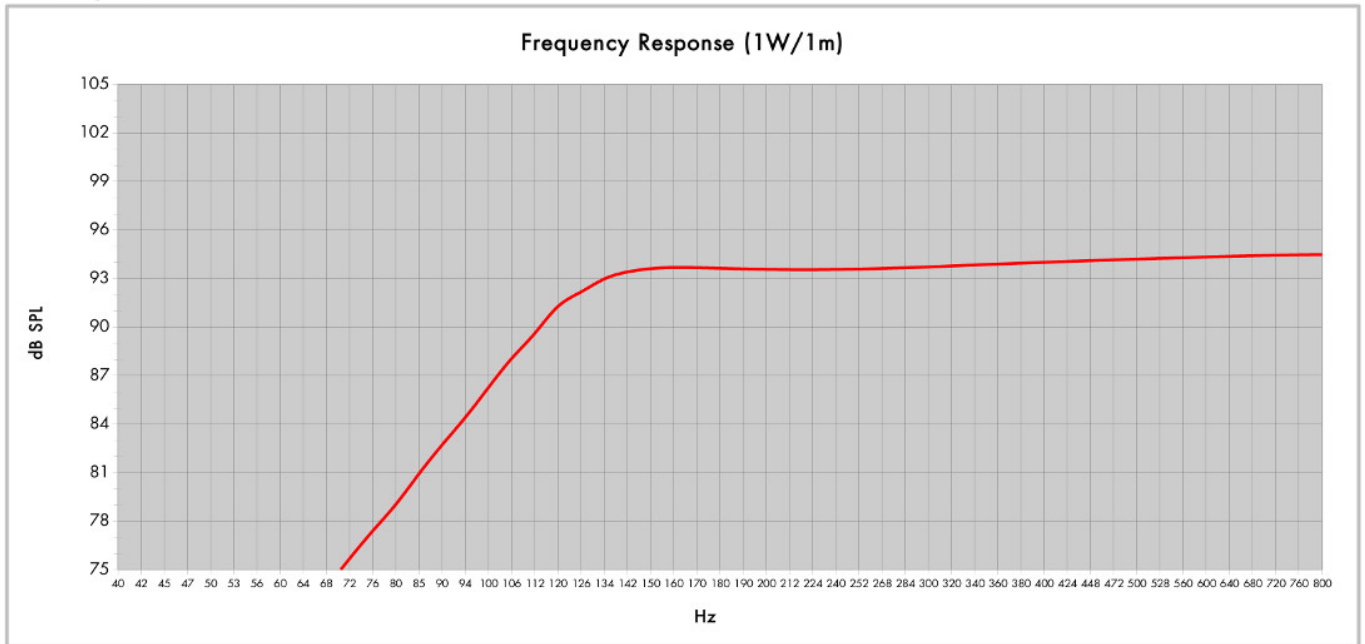
**SERVICE KITS**

LF recone-kits	<b>RCK06MBX448</b>
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Model:	<b>6MBX44</b>	Configuration:	<b>One Driver</b>
Enclosure Type:	<b>Bass Reflex</b>		
Internal Net Volume (Litres):	<b>3</b>	QB:	<b>7</b>
Tuning Frequency (Hz):	<b>120</b>	Port Area (cm <sup>2</sup> ):	<b>25,0</b>
Frequency (-3 dB) (Hz):	<b>123,0</b>	Port Length (cm):	<b>12,5</b>
Frequency (-10 dB) (Hz):	<b>95,3</b>		

