

8MBX51 16 Ω

Mid-Bass

- 400 W continuous program power capacity
- 51 mm (2 in) aluminium voice coil
- 60 - 4000 Hz response
- 97 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	200 mm (8 in)
Nominal Impedance	16 Ω
Minimum Impedance	11.2 Ω
Nominal Power Handling	200 W
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	400 W
Power on Continuous Program is defined as 3 dB greater than the Nominal rating.	
Sensitivity	97 dB
Applied RMS Voltage is set to 4 V for 16 ohms Nominal Impedance.	
Frequency Range	65 Hz - 4000 Hz
Voice Coil Diameter	51 mm (2 in)
Winding Material	Aluminium
Former Material	Glass Fibre
Winding Depth	15 mm (0.59 in)
Magnetic Gap Depth	7 mm (0.28 in)
Flux Density	1.3 T
Woofer Cone Treatment	Waterproof Impregnated Cone

PARAMETERS

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

Fs	68 Hz
Re	10.2 Ω
Qes	0.43
Qms	3.3
Qts	0.38
Vas	22 dm³ (0.78 ft³)
Sd	220 cm² (34.1 in²)
η0	1.5 %
Xmax	6 mm
Xvar	5.5 mm
Mms	18.4 g
Bl	13.7 Tm
Le	0.65 mH
EBP	158 Hz

DESIGN

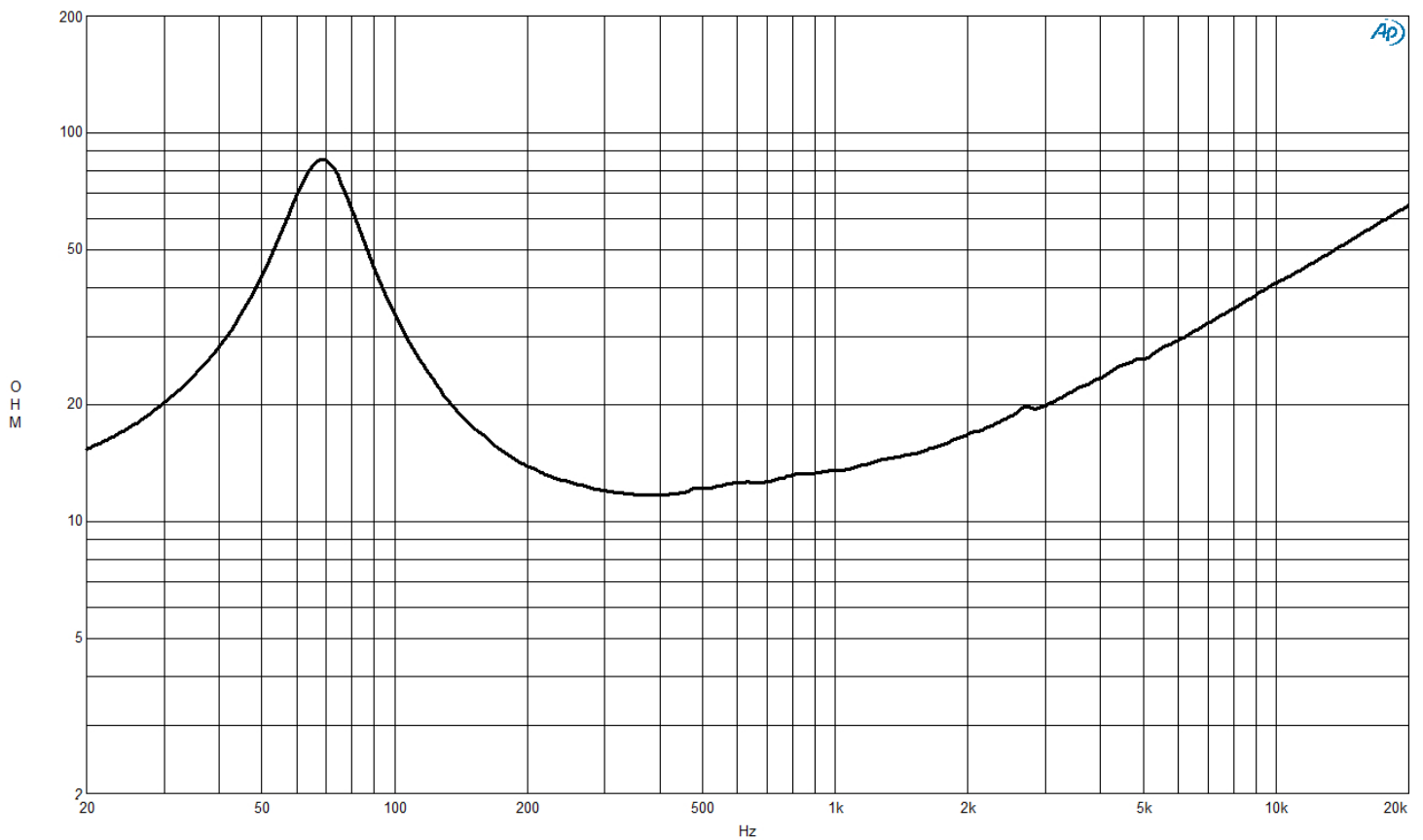
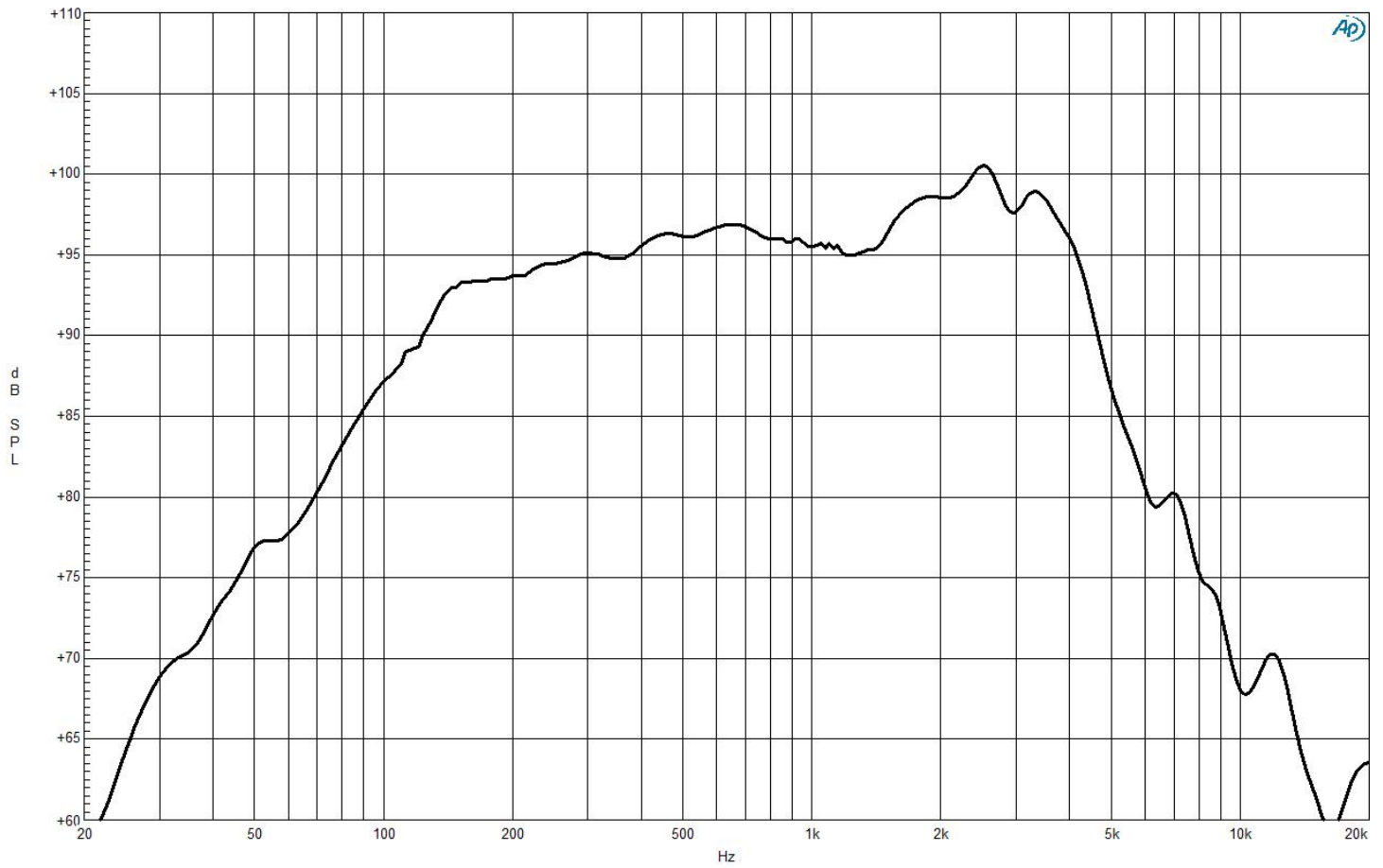
Surround Shape	Triple Roll
Cone Shape	Curvilinear
Magnet Material	Neodymium Ring
Spider	Single
Pole Design	T-Pole
Woofer Cone Treatment	Waterproof Impregnated Cone
Recommended Enclosure	19 dm³ (0.67 ft³)
Recommended Tuning	63 Hz

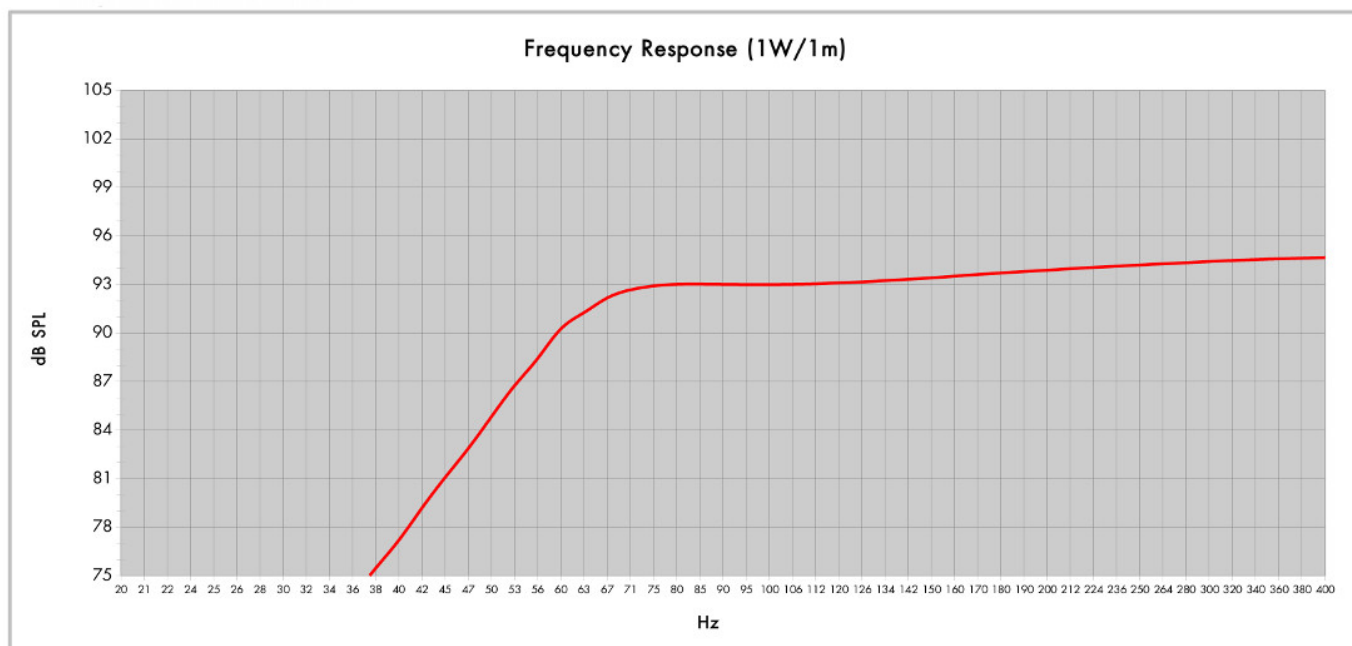
MOUNTING AND SHIPPING INFO

Overall Diameter	225 mm (8.86 in)
Bolt Circle Diameter	210 mm (8.27 in)
Baffle Cutout Diameter	187 mm (7.36 in)
Depth	93 mm (3.66 in)
Flange and Gasket Thickness	9 mm (0.35 in)
Air Volume Occupied by Driver	1.1 dm³ (0.04 ft³)
Net Weight	1.8 kg (3.97 lb)
Shipping Units	1 pcs
Shipping Weight	2.25 kg (4.96 lb)
Shipping Box	255x255x150 mm (10.04x10.04x5.91 in)

SERVICE KITS

LF recone-kits	RCK008MBX5116
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Model:	8MBX51	Configuration:	One Driver
Enclosure Type:	Bass Reflex		
Internal Net Volume (Litres):	19	QB:	7
Tuning Frequency (Hz):	63	Port Area (cm ²):	50,0
Frequency (-3 dB) (Hz):	66,4	Port Length (cm):	13,0
Frequency (-10 dB) (Hz):	50,3		

