

**6MBX44** 16 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>16 Ω</b>                        |
| Minimum Impedance                                                                                                                                   | <b>11.9 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>98 dB</b>                       |
| Applied RMS Voltage is set to 4V for 16 ohm Nominal Impedance                                                                                       |                                    |
| 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>115 Hz</b>                                    |
| Re               | <b>10.4 Ω</b>                                    |
| Qes              | <b>0.41</b>                                      |
| Qms              | <b>2.9</b>                                       |
| Qts              | <b>0.35</b>                                      |
| Vas              | <b>4 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>14.7 Tm</b>                                   |
| Le               | <b>0.34 mH</b>                                   |
| EBP              | <b>280 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

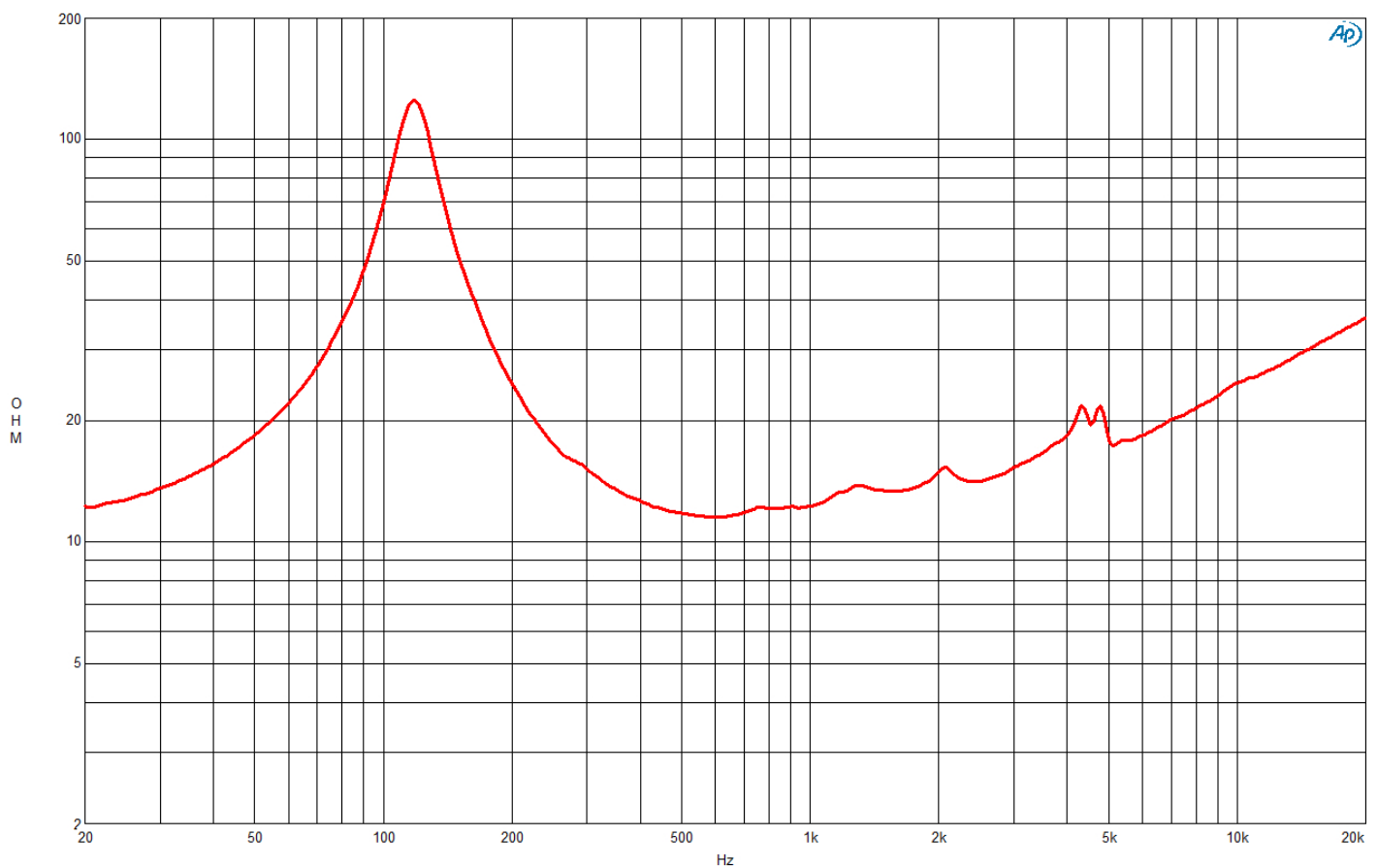
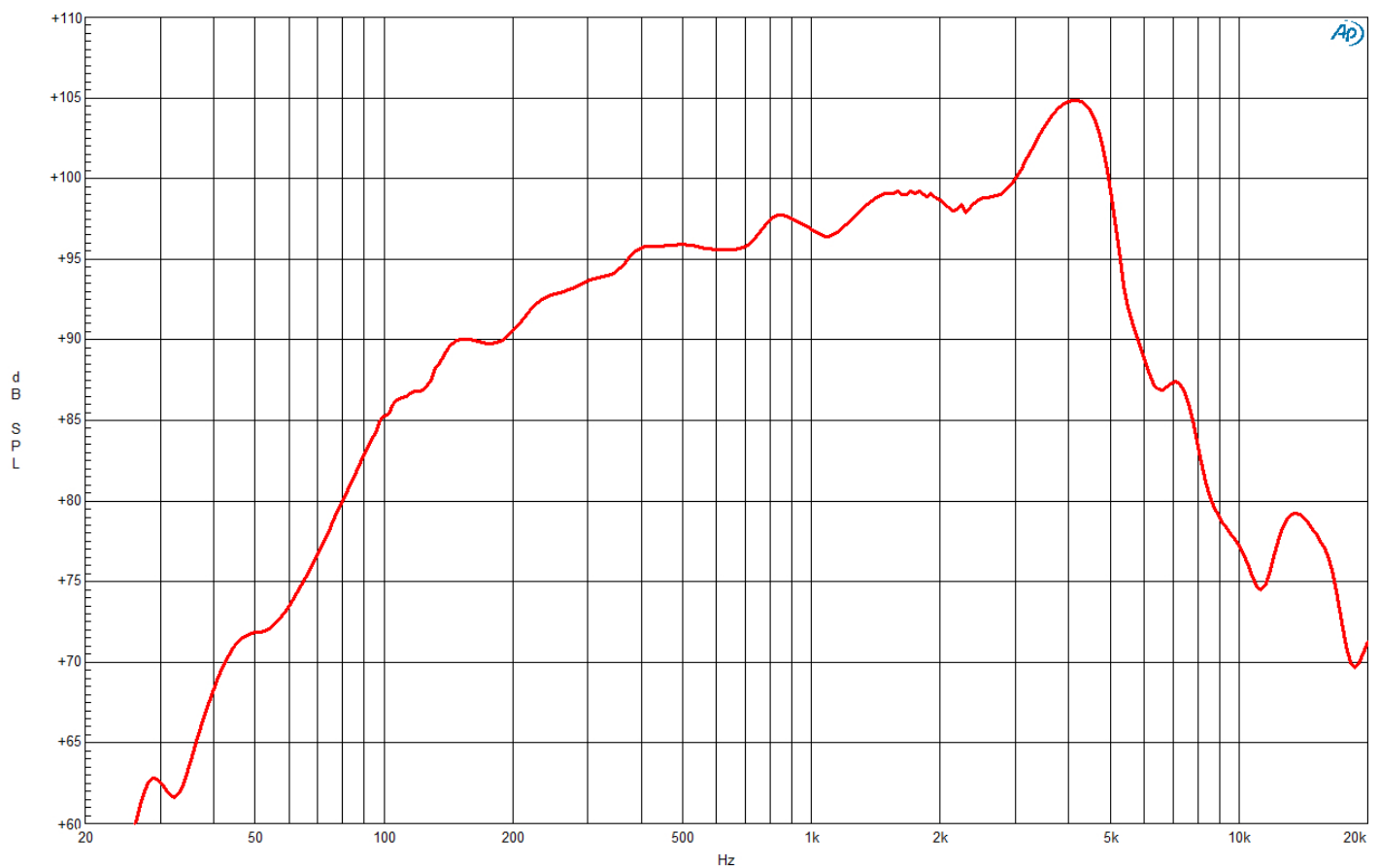
|                               |                                                 |
|-------------------------------|-------------------------------------------------|
| Overall Diameter              | <b>187 mm (7.36 in)</b>                         |
| Bolt Circle Diameter          | <b>172 mm (6.7 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>       |

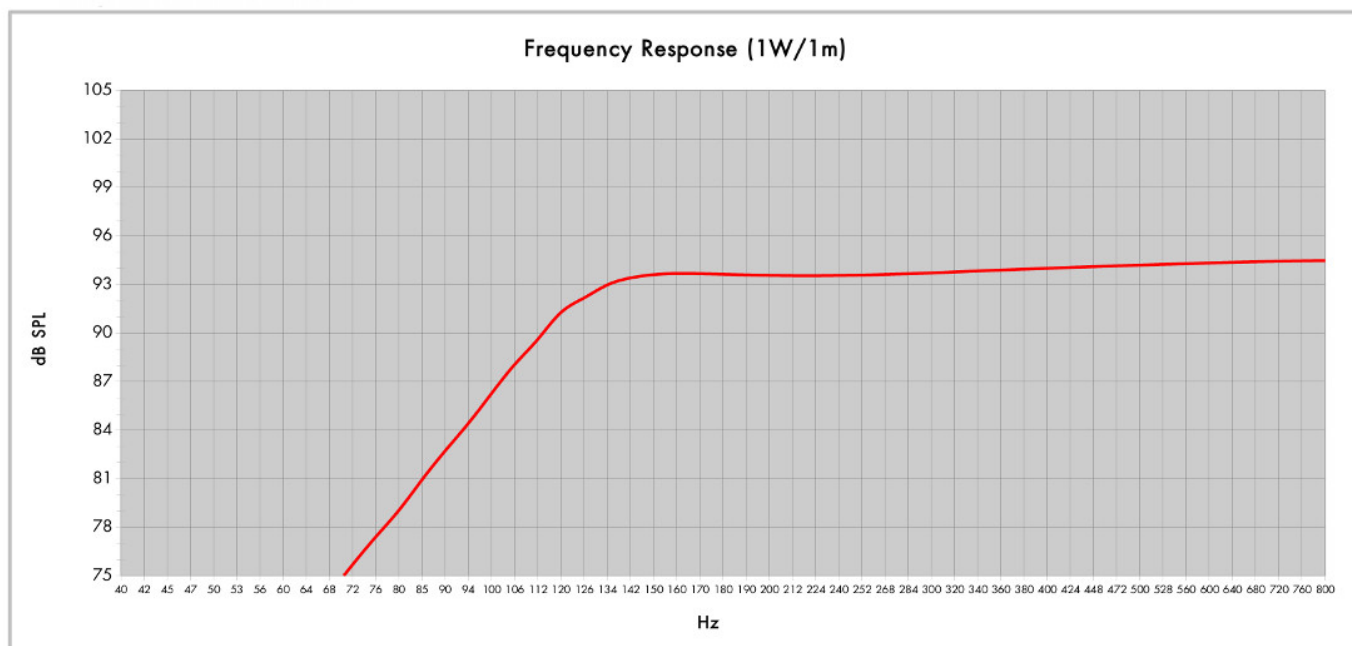
## SERVICE KITS

|                |                     |
|----------------|---------------------|
| LF recone-kits | <b>RCK06MBX4416</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>        |                               |                   |

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