

**10MBX64** 16 Ω**Mid-Bass**

- 700 W continuous program power capacity
- 64 mm (2.5 in) aluminium voice coil
- 65 - 6000 Hz response
- 100 dB sensitivity
- Neodymium inside slug magnet assembly
- Aluminium demodulating 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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Mid-Bass

## SPECIFICATIONS

|                                                                                                                                                     |                                    |
|-----------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------|
| Nominal Diameter                                                                                                                                    | <b>250 mm (10 in)</b>              |
| Nominal Impedance                                                                                                                                   | <b>16 Ω</b>                        |
| Minimum Impedance                                                                                                                                   | <b>11.3 Ω</b>                      |
| Nominal Power Handling                                                                                                                              | <b>350 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>700 W</b>                       |
| Power on Continuous Program is defined as 3 dB greater than the Nominal rating.                                                                     |                                    |
| Sensitivity                                                                                                                                         | <b>100 dB</b>                      |
| Applied RMS Voltage is set to 4 V for 16 ohms Nominal Impedance.                                                                                    |                                    |
| Frequency Range                                                                                                                                     | <b>65 Hz - 6000 Hz</b>             |
| Voice Coil Diameter                                                                                                                                 | <b>64 mm (2.5 in)</b>              |
| Winding Material                                                                                                                                    | <b>Aluminium</b>                   |
| Former Material                                                                                                                                     | <b>Glass Fibre</b>                 |
| Winding Depth                                                                                                                                       | <b>12 mm (0.47 in)</b>             |
| Magnetic Gap Depth                                                                                                                                  | <b>8 mm (0.31 in)</b>              |
| Flux Density                                                                                                                                        | <b>1.25 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>65 Hz</b>                                     |
| Re               | <b>10.2 Ω</b>                                    |
| Qes              | <b>0.32</b>                                      |
| Qms              | <b>5.8</b>                                       |
| Qts              | <b>0.3</b>                                       |
| Vas              | <b>30 dm<sup>3</sup> (1.06 ft<sup>3</sup>)</b>   |
| Sd               | <b>346 cm<sup>2</sup> (53.63 in<sup>2</sup>)</b> |
| η <sub>0</sub>   | <b>3 %</b>                                       |
| X <sub>max</sub> | <b>4 mm</b>                                      |
| X <sub>var</sub> | <b>5.5 mm</b>                                    |
| M <sub>ms</sub>  | <b>30 g</b>                                      |
| Bl               | <b>20.5 Tm</b>                                   |
| Le               | <b>0.57 mH</b>                                   |
| EBP              | <b>203 Hz</b>                                    |

## DESIGN

|                       |                                                |
|-----------------------|------------------------------------------------|
| Surround Shape        | <b>Double Roll</b>                             |
| Cone Shape            | <b>Radial</b>                                  |
| Magnet Material       | <b>Neodymium Inside Slug</b>                   |
| Spider                | <b>Single</b>                                  |
| Pole Design           | <b>T-Pole</b>                                  |
| Woofer Cone Treatment | <b>Waterproof Impregnated Cone</b>             |
| Recommended Enclosure | <b>26 dm<sup>3</sup> (0.92 ft<sup>3</sup>)</b> |
| Recommended Tuning    | <b>65 Hz</b>                                   |

## MOUNTING AND SHIPPING INFO

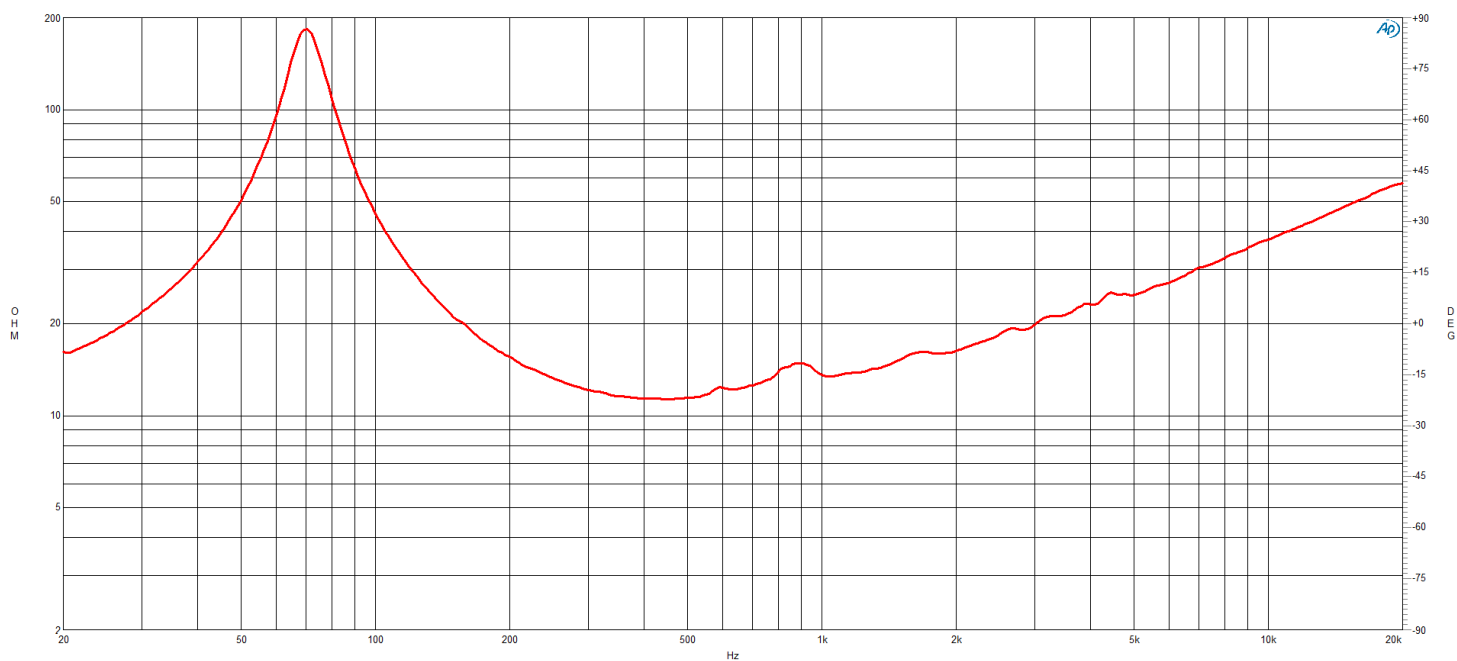
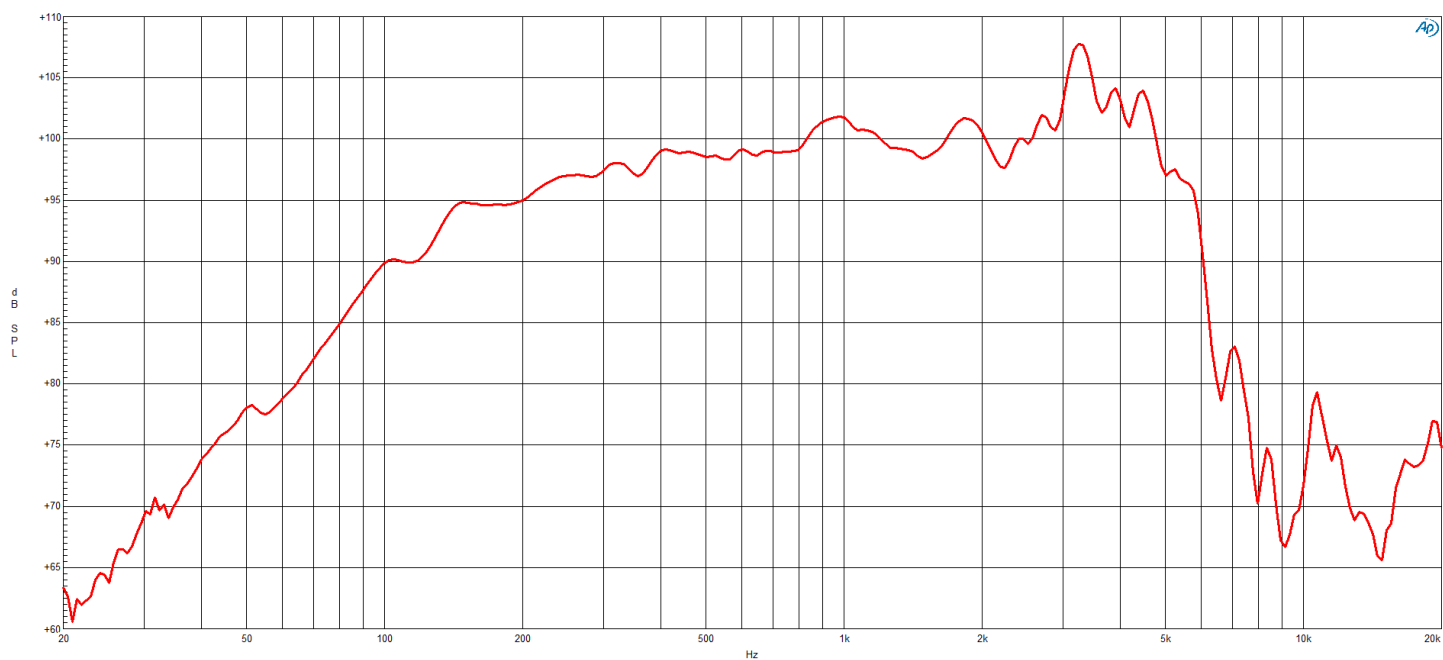
|                               |                                                 |
|-------------------------------|-------------------------------------------------|
| Overall Diameter              | <b>261 mm (10.28 in)</b>                        |
| Bolt Circle Diameter          | <b>245 mm (9.65 in)</b>                         |
| Baffle Cutout Diameter        | <b>230 mm (9.06 in)</b>                         |
| Depth                         | <b>125 mm (4.92 in)</b>                         |
| Flange and Gasket Thickness   | <b>14 mm (0.55 in)</b>                          |
| Air Volume Occupied by Driver | <b>1.5 dm<sup>3</sup> (0.05 ft<sup>3</sup>)</b> |
| Net Weight                    | <b>3.25 kg (7.17 lb)</b>                        |
| Shipping Units                | <b>1 pcs</b>                                    |
| Shipping Weight               | <b>3.85 kg (8.49 lb)</b>                        |
| Shipping Box                  | <b>295x314x175 mm (11.61x12.36x6.89 in)</b>     |

## SERVICE KITS

|                |                     |
|----------------|---------------------|
| LF recone-kits | <b>RCK10MBX6416</b> |
|----------------|---------------------|

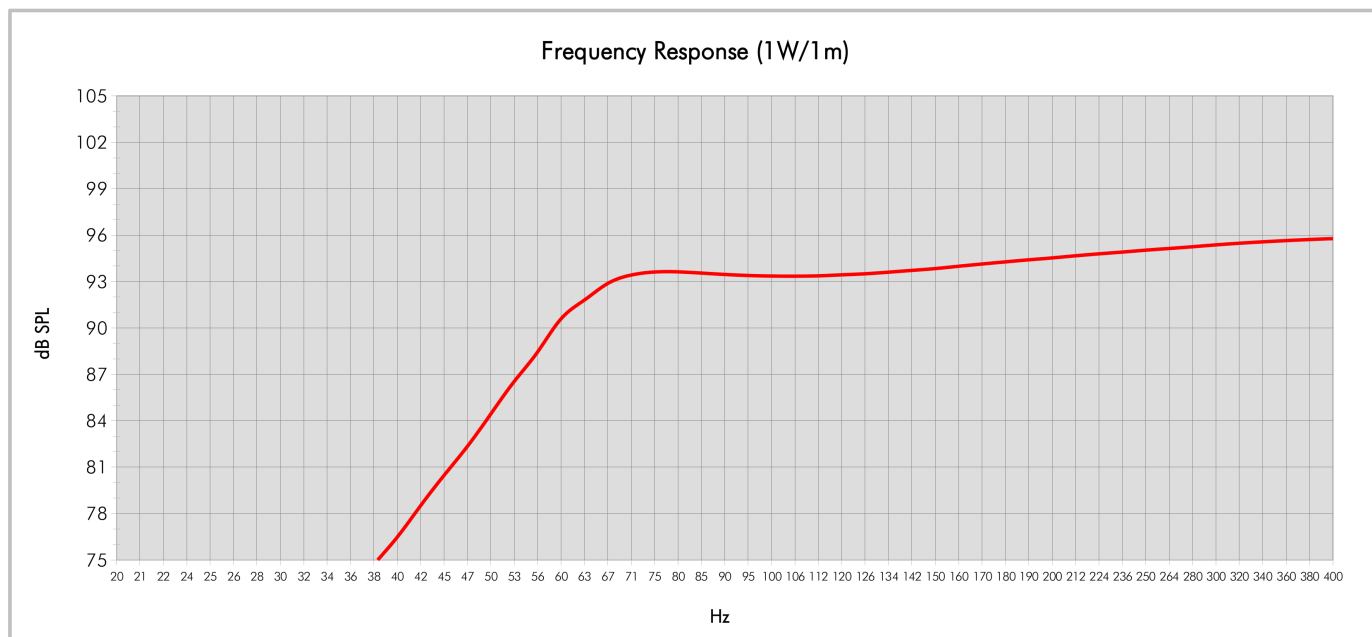
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|                               |             |                   |            |
|-------------------------------|-------------|-------------------|------------|
| Model:                        | 10MBX64     | Configuration:    | One Driver |
| Enclosure Type:               | Bass Reflex |                   |            |
| Internal Net Volume (Litres): | 26          | QB:               | 6          |
| Tuning Frequency (Hz):        | 65          | Port Area (cm²):  | 111,0      |
| Frequency (-3 dB) (Hz):       | 71,1        | Port Length (cm): | 20,0       |
| Frequency (-10 dB) (Hz):      | 52,8        |                   |            |

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