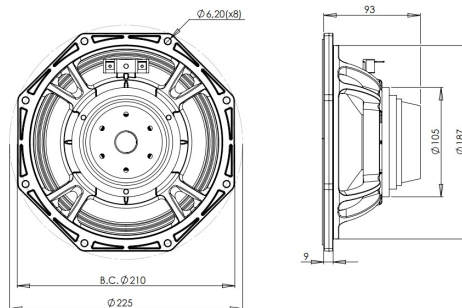


# 8MBX51

**8Ω****LF Drivers - 8.0 Inches**

- Product Preview - Coming Soon....
- 400 W continuous program power capacity
- 50 mm (2 in) copper 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

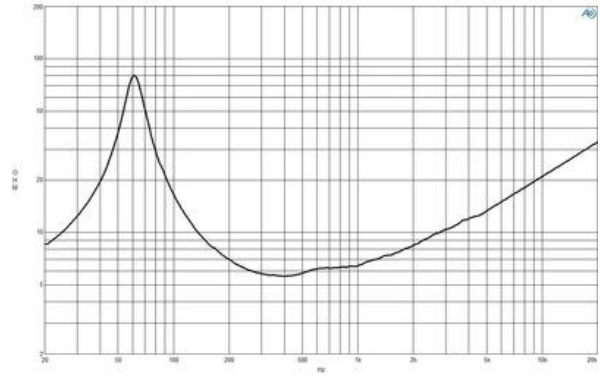
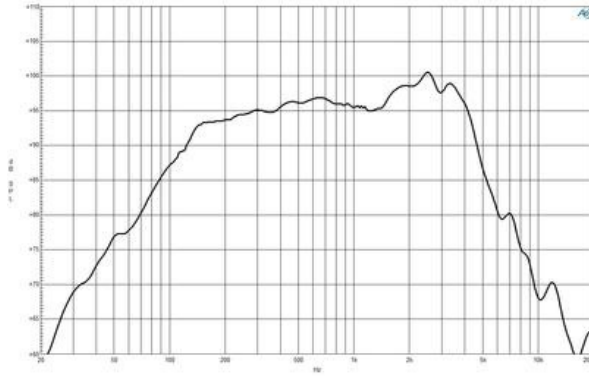


## DESCRIPTION

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.

# 8MBX51

## LF Drivers- 8.0 Inches



### SPECIFICATIONS

|  |                   |
|--|-------------------|
| Nominal Diameter                       | 200 mm (8.0 in)   |
| Nominal Impedance                      | 8 Ω               |
| Minimum Impedance                      | 5.9 Ω             |
| Nominal Power Handling <sup>1</sup>    | 200 W             |
| Continuous Power Handling <sup>2</sup> | 400 W             |
| Sensitivity <sup>3</sup>               | 96.5 dB           |
| Frequency Range                        | 60 - 4000 Hz      |
| Voice Coil Diameter                    | 51 mm (2.0 in)    |
| Winding Material                       | Aluminium         |
| Former Material                        | Glass Fibre       |
| Winding Depth                          | 15.0 mm (0.59 in) |
| Magnetic Gap Depth                     | 7.0 mm (0.28 in)  |
| Flux Density                           | 1.3 T             |

### 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 | 19.0 dm <sup>3</sup> (0.67 ft <sup>3</sup> ) |
| Recommended Tuning    | 63 Hz  |

### PARAMETERS<sup>4</sup>

|                     |   |
|---------------------|---|
| Resonance Frequency | 60 Hz   |
| Re                  | 4.9 Ω   |
| Qes                 | 0.31  |
| Qms                 | 5.6   |
| Qts                 | 0.29  |
| Vas                 | 23.0 dm <sup>3</sup> (0.81 ft <sup>3</sup> )  |
| Sd                  | 220.0 cm <sup>2</sup> (34.1 in <sup>2</sup> ) |
| η <sub>o</sub>      | 1.7 %   |
| X <sub>max</sub>    | 6.0 mm  |
| X <sub>var</sub>    | 8.0 mm  |
| M <sub>ms</sub>     | 20.0 g  |
| Bl                  | 11.4 Txm                                      |
| Le                  | 0.4 mH  |
| EBP                 | 193 Hz  |

### MOUNTING AND SHIPPING INFO

|                               |   |
|-------------------------------|---|
| Overall Diameter              | 225 mm (8.86 in)                            |
| Bolt Circle Diameter          | 210 mm (8.27 in)                            |
| Baffle Cutout Diameter        | 187.0 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 dm <sup>3</sup> (0.04 ft <sup>3</sup> ) |
| Net Weight                    | 1.8 kg (3.97 lb)                            |
| Shipping Units                | 1   |
| Shipping Weight               | 2.25 kg (4.96 lb)                           |
| Shipping Box                  | 255x255x150 mm (10.04x10.04x5.91 in)        |

### SERVICE KIT

RCK008MBX518

- 2 hours test made with continuous pink noise signal (6 dB crest factor) within the range Fs-10Fs. Power calculated on rated minimum impedance. Loudspeaker in free air.
- Power on Continuous Program is defined as 3 dB greater than the Nominal rating.
- Applied RMS Voltage is set to 2.83 V for 8 ohms Nominal Impedance.
- Thiele-Small parameters are measured after a high level 20 Hz sine wave preconditioning test.