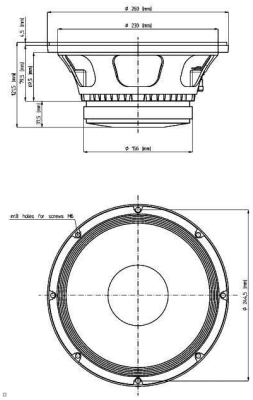
10MB400 8Ω

LF drivers - 10.0 Inches



- 100,5 dB SPL 1W / 1m average sensitivity
- 51 mm (2 in) Interleaved Sandwich Voice coil (ISV)
- 320W program power handling
- Improved heat dissipation via unique basket design
- Ideal for compact two way and multiway systems

The 10MB400 midbass transducer is derived from the 10MB600 but uses a 50 mm voice coil. Nevertheless, it has outstanding sensitivity (100.5dB 1W/1m) as well as good power handling.
 This transducer is an extremely versatile high quality 10" driver. It can be used as the midbass component in a 2-way system in combination with a 1" HF compression driver, or as the dedicated bass driver in compact reflex enclosures of just 15 - 25 lt volume, or as a direct radiating midrange unit.
 The curvilinear paper cone is carried by a dampened linen, double half-roll front suspension to control vibrational modes whilst providing good excursion capabilities.
 The copper shorting ring on the pole piece reduces inductance and provides improved transient response and phase control on the mid frequencies.
 The 50 mm diameter state-of-the-art, copper wire voice coil employs the same technology fitted to our top-of-the-range models, i.e. our Interleaved Sandwich Voice coil (ISV). This technology consists of a high strength fiberglas former carrying windings on both the outer and inner surfaces, creating a mass balanced coil. This results in an
 extremely linear motor assembly which, in conjunction with the highly advanced design of the magnetic structure, provides a high force factor or BL.
 Another advanced design feature of the 10MB400 is the air channel fine passages between the chassis back plate and top plate of the magnet. These passages are used to draw heated air out from the voice coil gap and dissipate the energy via the chassis casting.
 The top and back plates of the magnet assembly have been designed to optimise flux density and BL factor in the air gap using our in-house FEA CAD facility.

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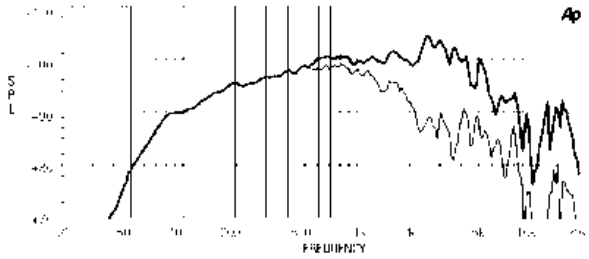

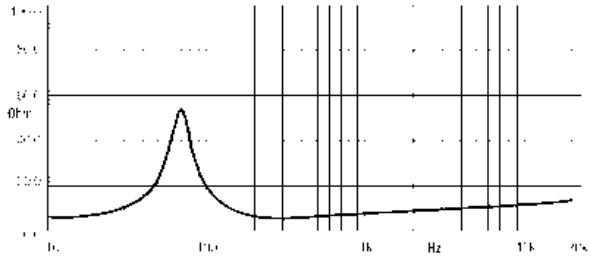

SPECIFICATIONS

Nominal Diameter	260 mm (in)
Nominal Impedance	8 Ω
Nominal Power Handling[1]	250 W
Continuous Power Handling[2]	320 W
Sensitivity[3]	100.5 dB
Frequency Range	65 - 6100 Hz
Voice Coil Diameter	50 mm (2.0 in)
Winding Material	copper

DESIGN

Surround Shape	Double half roll
Cone Shape	Curvilinear
Woofer Cone Treatment	Weather protected
Recommended Enclosure	20.0 dm^3 (0.71 ft^3)
Recommended Tuning	75 Hz

PARAMETERS[4]

Resonance Frequency	70 Hz
Re	5.1 Ω
Qes	0.37
Qms	3.5
Qts	0.33
Vas	41.0 dm^3 (1.45 ft^3)
Sd	350.0 cm^2 (54.25 in^2)
Xmax	2.5 mm
Mms	21.0 g
Bl	12.0 Txm
Le	1.05 mH
EBP	189 Hz

MOUNTING AND SHIPPING INFO

Overall Diameter	260 mm (10.24 in)
Bolt Circle Diameter	244 mm (9.61 in)
Baffle Cutout Diameter	232.0 mm (9.13 in)
Depth	121 mm (4.76 in)
Flange and Gasket Thickness	14 mm (0.55 in)
Net Weight	4.7 kg (10.36 lb)
Shipping Weight	5.1 kg (lb)
Shipping Box	275 x 275 x 164 mm (10.83x10.83x6.46 in)

1. 2 hours test made with continuous pink noise signal within the range Fs-10Fs. Power calculated on rated nominal impedance. Loudspeaker in free air.
2. Power on Continuous Program is defined as 3 dB greater than the Nominal rating.
3. Applied RMS Voltage is set to 2.83 V for 8 ohms Nominal Impedance.
4. Thiele-Small parameters are measured after a high level 20 Hz sine wave preconditioning test.

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