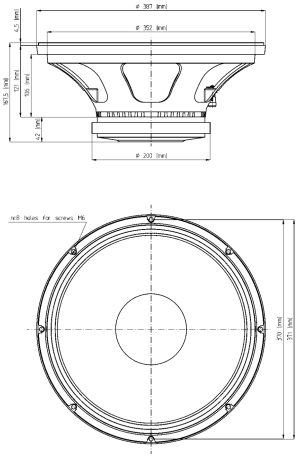
15MB650 8Ω

LF drivers - 15.0 Inches



- 101,5 dB SPL 1W / 1m average sensitivity
- 75 mm (3 in) Interleaved Sandwich Voice coil (ISV)
- 400 W AES power handling
- Excellent transient response and cone damping
- Improved heat dissipation via unique basket design
- Ideal for compact two way, multiway systems and horn design

he 15MB650 high output mid bass has been designed for use as a bass and low-midrange driver in tuned reflex enclosures, in 2- or 3-way systems. When used in a 2-way system, we recommend a 1" or 2" exit compression driver to obtain the best sound quality and directional control. The 15MB650 combines a high sensitivity value
(101dB 1W/1m) with high power handling capabilities.
The curvilinear paper cone, in conjunction with the viscose dampened double half-roll suspension, provides excellent transient response and cone damping.
The 75 mm Ø copper voice coil utilises the same technology fitted to our top-of-the-range 4” voice coil models. It employs the Interleaved Sandwich Voice coil (ISV), in which a high strength fiberglas former carries windings on the outer and inner surfaces to achieve a mass balanced coil. This results in an extremely linear motor assembly with a reduced tendency for eccentric behavior when driven hard.
The low inductance coil gives improvements in transient response.
Excellent heat dissipation has been achieved by incorporating air channels in the basket design, between the basket and top plate.
Maximum flux concentration and force factor in the gap are assured by the unique shape and design of the face and back plates, which have been created using our in-house Magnetic Flux FEA CAD resource.
The special treatment applied to the top and the back plate is far more resistant to the corrosive effects of salts and oxidization than any other treatment in use

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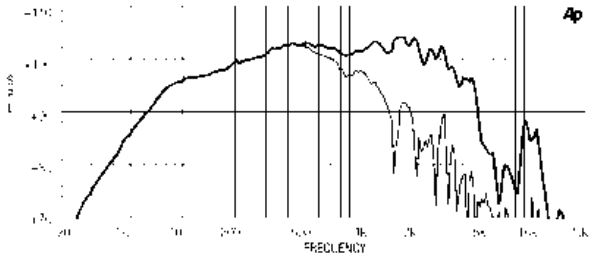

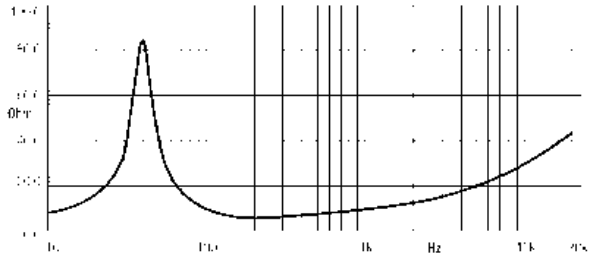

SPECIFICATIONS

Nominal Diameter	380 mm (in)
Nominal Impedance	8 Ω
Minimum Impedance	5.9 Ω
Nominal Power Handling[1]	400 W
Continuous Power Handling[2]	600 W
Sensitivity[3]	101.5 dB
Frequency Range	50 - 4800 Hz
Voice Coil Diameter	75 mm (3.0 in)
Winding Material	copper

DESIGN

Surround Shape	M-roll
Cone Shape	Curvilinear
Magnet Material	Ferrite
Woofer Cone Treatment	Weather protected

PARAMETERS[4]

Resonance Frequency	40 Hz
Re	5.5 Ω
Qes	0.27
Qms	3.95
Qts	0.26
Vas	210.0 dm^3 (7.42 ft^3)
Sd	900.0 cm^2 (139.5 in^2)
Xmax	4.0 mm
Mms	77.0 g
Bl	20.0 Txm
Le	1.36 mH
EBP	148 Hz

MOUNTING AND SHIPPING INFO

Overall Diameter	387 mm (15.24 in)
Bolt Circle Diameter	370 mm (14.57 in)
Baffle Cutout Diameter	353.0 mm (13.9 in)
Depth	167 mm (6.57 in)
Flange and Gasket Thickness	19 mm (0.75 in)
Net Weight	8.3 kg (18.3 lb)
Shipping Weight	9.3 kg (lb)
Shipping Box	405 x 405 x 214 mm (15.94x15.94x8.43 in)

1. 2 hours test made with continuous pink noise signal within the range Fs-10Fs. Power calculated on rated minimum 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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