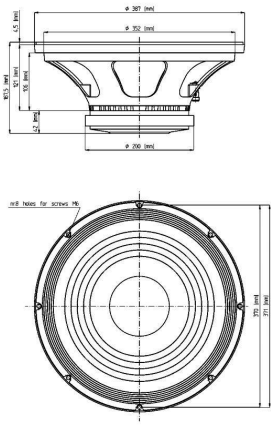
15MB700 8Ω

LF drivers - 15.0 Inches



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

The 15MB700 very high output mid-bass transducer shows exceptional efficiency and is primarily intended for 2-way very compact reflex systems (75 lt.), 3-way systems and horn loaded applications. It combines high sensitivity (103 dB 1W/1m) with a high power handling capability. The smooth textured curvilinear paper cone, in conjunction with the viscose dampened multiroll suspension, provides excellent cone dampening and excursion control. The 75 mm diameter aluminum voice coil features the same technology fitted to our top-of-the-range 4" voice-coil models. It employs Interleaved Sandwich Voice coil (ISV) technology, in which a high strength fiberglas former carries windings on both 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 coil inductance results in an improved transient response. Excellent heat dissipation has been achieved by incorporating air channels into the basket design, between the basket and the top plate. Maximum flux concentration and force factor in the gap are assured by the unique shape and design of the top and back plates which have been designed using our in-house Magnetic Flux FEA CAD resource. Due to the increasing use of audio systems at outdoor events, the ability to perform in adverse weather conditions or in high-humidity areas is a key feature of the 15MB700. This has been achieved using exclusive cone and magnetic plate treatment processes which allows the speaker to resist corrosion and render the cone water repellent.

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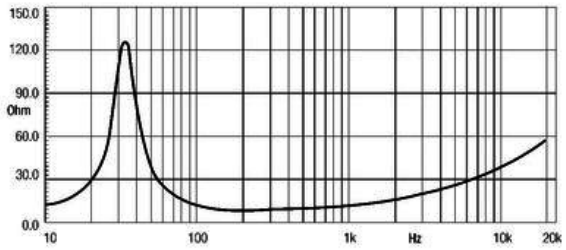

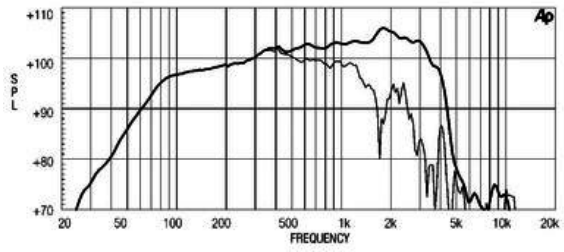

SPECIFICATIONS

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]	103.0 dB
Frequency Range	45 - 4300 Hz
Voice Coil Diameter	75 mm (3.0 in)
Winding Material	aluminum

DESIGN

Surround Shape	Multiroll
Cone Shape	Curvilinear
Magnet Material	Ferrite
Woofer Cone Treatment	Weather protected
Recommended Enclosure	90.0 dm^3 (3.18 ft^3)
Recommended Tuning	45 Hz

PARAMETERS[4]

Resonance Frequency	42 Hz
Re	5.0 Ω
Qes	0.31
Qms	4.6
Qts	0.29
Vas	202.0 dm^3 (7.13 ft^3)
Sd	850.0 cm^2 (131.75 in^2)
Xmax	5.5 mm
Mms	73.0 g
Bl	17.6 Txm
Le	1.2 mH
EBP	135 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	9.4 kg (20.72 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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