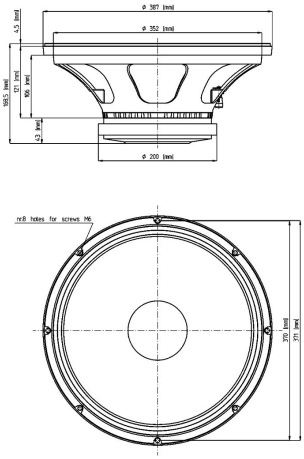
15W600 8Ω

LF drivers - 15.0 Inches



- 98 dB SPL 1W / 1m average sensitivity
- 75 mm (3 in) Interleaved Sandwich Voice coil (ISV)
- 500W AES power handling
- Reinforced poly-cotton suspension
- Improved heat dissipation via unique basket design
- Ideal for compact subwoofer and multiway reflex systems

The 15W600 low frequency transducer meets the specific market requirement for a loudspeaker which combines good linearity and efficiency with high power handling capabilities.
It is an ideal woofer and subwoofer choice for all two or three-way ferrite systems. Although primarily developed for compact reflex enclosures (around 70 lt), the 15W600 driver's versatile characteristics also render it suitable for a wide variety of loading typologies, including bandpass and horn loaded. When used in a two-way system, we recommend a 1.4" or 2" exit HF compression driver match in order to achieve the best sound quality results.
The deep profile curvilinear paper cone has been made from a special high strength wood pulp designed to achieve the best possible linearity within its intended frequency range and to control bell-mode resonances around the cone circumference. The cone is carried by an unusually deep profile, double half-roll suspension formed of a linen-like material that is more resistant to aging and fatigue than traditional cotton-based ones.
The 75 mm Ø state-of-the-art voice coil is similar to those fitting our top-of-the-range 18" and 15" models. This employs our Interleaved Sandwich Voice coil (ISV) system, 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.
Excellent heat dissipation has been obtained by incorporating air channels between basket and magnetic top plate.
Due to the increasing use of audio systems at outdoor events, the ability to perform in adverse, high humidity weather conditions is a key feature of the 15W600. This has been achieved using exclusive cone and magnetic plate treatment processes which enable the speaker to resist corrosion and render the cone water repellent at the same time.

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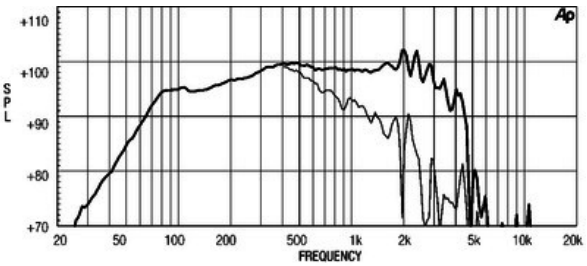

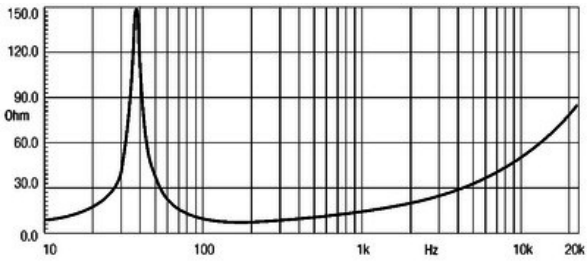

SPECIFICATIONS

Nominal Diameter	380 mm (in)
Nominal Impedance	8 Ω
Minimum Impedance	0.0 Ω
Nominal Power Handling[1]	500 W
Continuous Power Handling[2]	600 W
Sensitivity[3]	98.0 dB
Frequency Range	38 - 4400 Hz
Voice Coil Diameter	75 mm (3.0 in)
Winding Material	copper

DESIGN

Surround Shape	M-roll
Cone Shape	Straight
Magnet Material	Ferrite
Woofer Cone Treatment	Weather protected
Recommended Enclosure	100.0 dm^3 (3.53 ft^3)
Recommended Tuning	45 Hz

PARAMETERS[4]

Resonance Frequency	38 Hz
Re	5.6 Ω
Qes	0.3
Qms	7.2
Qts	0.29
Vas	183.0 dm^3 (6.46 ft^3)
Sd	900.0 cm^2 (139.5 in^2)
Xmax	6.5 mm
Mms	93.0 g
Bl	20.5 Txm
Le	1.85 mH
EBP	126 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	168 mm (6.61 in)
Flange and Gasket Thickness	19 mm (0.75 in)
Net Weight	8.6 kg (18.96 lb)
Shipping Weight	9.7 kg (21.38 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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