8M400F 8Ω

LF drivers - 8.0 Inches

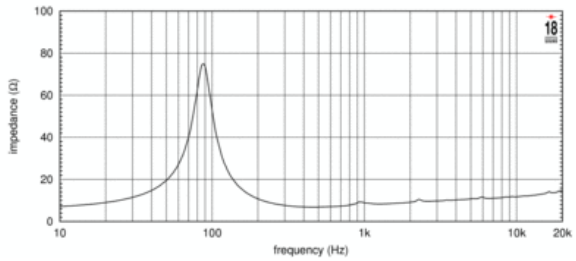


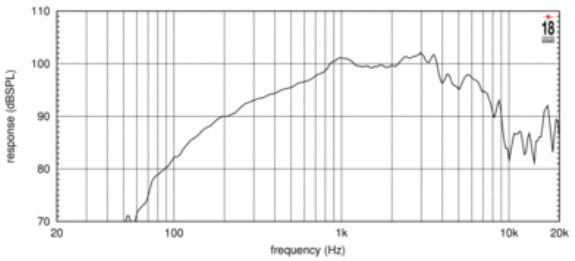
- 100,5 dB SPL 1W / 1m average sensitivity
- 51 mm (2 in) Interleaved Sandwich Voice coil (ISV)
- 250 Watt AES power handling
- Improved heat dissipation via unique basket design
- Copper ring to linearize impedance curve
- Suitable for high quality midrange applications

The 8M400 is a high power, high output, 200 mm (8 in) midrange for high level professional use. The excellent sound quality has been achieved as a result of extensive research on mid frequencies intelligibility. The 8M400 has been designed for use as a midrange in both horn and direct radiation, closer or reflex enclosures, as small as 3 lt. The curvilinear cone, made with a high damping wood pulp, has been designed to achieve the best possible linearity within its frequency range. The in-house developed cone treatment is a humidity repellent and also dampens the bell mode resonance significantly. The 51 mm (2 in) ISV aluminum voice coil assembly is wound on a strong fiberglas former to improve force transmission and power handling. ISV technology is based on a high strength fiberglas former with half the coil wound on the outside and half on the inside and bonded together using unique high temperature resin adhesives. The powerful magnet assembly assures high flux concentration. The force factor and power handling are at an optimum level. The direct contact between the finned basket and the magnetic structure significantly improves thermal connection and heat dissipation, further increasing power handling and lowering power compression. The copper shorting ring on the pole piece reduces inductance and improves transient response and phase control in the mid frequencies.

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SPECIFICATIONS

Nominal Impedance	8 Ω
Minimum Impedance	6.5 Ω
Nominal Power Handling[1]	250 W
Continuous Power Handling[2]	320 W
Sensitivity[3]	100.5 dB
Frequency Range	200 - 9000 Hz
Voice Coil Diameter	51 mm (2.0 in)

DESIGN

Surround Shape	Triple roll
Cone Shape	Curvilinear
Magnet Material	Ferrite
Recommended Enclosure	6.0 dm^3 (0.21 ft^3)
Recommended Tuning	100 Hz

PARAMETERS[4]

Resonance Frequency	89 Hz
Re	5.1 Ω
Qes	0.28
Qms	4.03
Qts	0.26
Vas	13.7 dm^3 (0.48 ft^3)
Sd	227.0 cm^2 (35.19 in^2)
Xmax	3.0 mm
Mms	16.9 g
Bl	13.1 Txm
Le	0.7 mH
EBP	317 Hz

MOUNTING AND SHIPPING INFO

Overall Diameter	210 mm (8.27 in)
Bolt Circle Diameter	196 mm (7.74 in)
Baffle Cutout Diameter	186.0 mm (7.32 in)
Depth	106 mm (4.17 in)
Flange and Gasket Thickness	15 mm (0.61 in)
Net Weight	4.9 kg (10.8 lb)
Shipping Weight	5.2 kg (lb)
Shipping Box	235x235x150 mm (9.25x9.25x5.91 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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