

KEY FEATURES

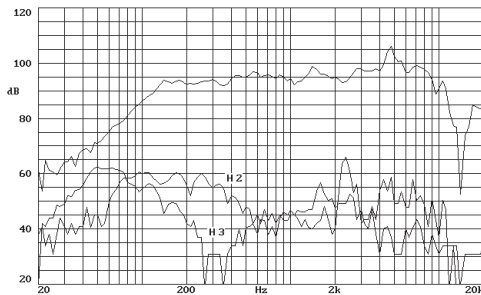
- Considerable power handling: 125 w AES
- High sensitivity: 98 dB
- Aluminium basket
- 1.5" (38.5 mm) edgewound copper ribbon voice coil
- High dispersion control
- Low harmonic distortion
- Designed for high quality sound reinforcement systems and for general mid-frequencies reproduction



GENERAL DESCRIPTION

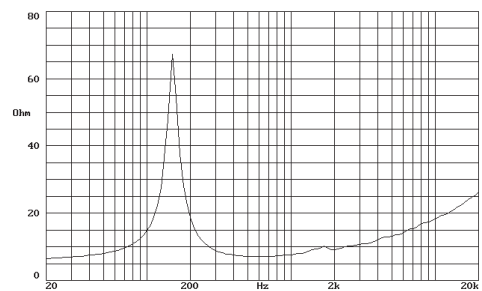
This 6"1/2 is an improved version of the former 6 MI80. It is mounted with a cast aluminium basket that reduces mechanical vibrations and increases thermal dissipation. It has been especially designed for high quality sound reinforcement systems, mid and mid bass applications.

FREQUENCY RESPONSE AND DISTORTION CURVES

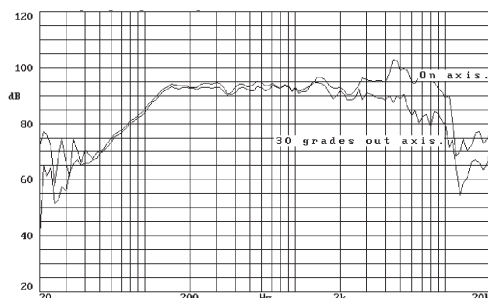


Note: on axis frequency response measured with loudspeaker standing on infinite baffle in anechoic chamber, 1w @ 1m.

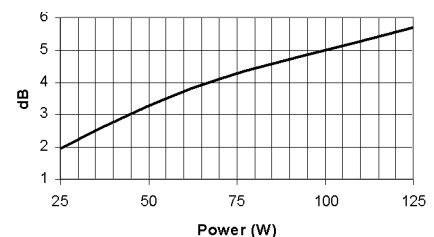
FREE AIR IMPEDANCE CURVE



FREQUENCY RESPONSE OUT OF AXIS



POWER COMPRESSION LOSSES

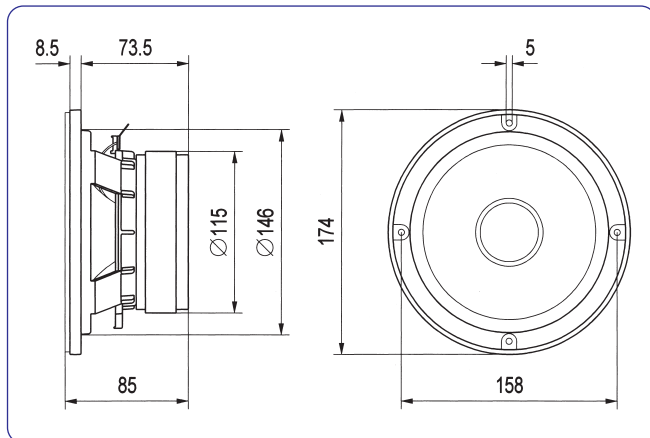


Note: These losses are calculated from a five minutes AES power test applying band limited pink noise (100-5000 Hz). The loudspeaker is free-air standing.

TECHNICAL SPECIFICATIONS

Nominal diameter	165 mm.	6.5 in.
Rated impedance	8 ohms.	
Minimum impedance	7.1 ohms.	
Power capacity*	125 w	AES
Program Power	250 w	
Sensitivity	98 dB	2.83v @ 1m @ 2π
Frequency range	150 - 8000 Hz	
Voice coil diameter	38.5 mm.	1.5 in.
Magnetic assembly weight	2 kg.	4.4 lb.
BL factor	9.6	N/A
Moving mass	0.009 kg.	
Voice coil length	7 mm.	
Air gap height	6 mm.	

DIMENSION DRAWINGS



MOUNTING INFORMATION

Overall diameter	174 mm.	6.85 in.
Bolt circle diameter	158 mm.	6.22 in.
Baffle cutout diameter:		
-Front mount	146 mm.	5.75 in.
-Rear mount	142 mm.	5.59 in.
Depth	85 mm.	3.35 in.
Volume displaced by driver	0.75 l	0.026 ft. ³
Net weight	2.2 kg.	4.84 lb.
Shipping weight	2.25 kg.	4.95 lb.

MATERIALS

- **Basket:** Die cast aluminium
- **Cone:** Paper
- **Surround:** Foam
- **Voice coil:** Copper
- **Magnet:** Ferrite

THIELE-SMALL PARAMETERS**

Resonant Frequency, fs	120 Hz
D.C. Voice Coil Resistance, Re	6 ohms.
Mechanical Quality Factor, Qms	6.8
Electrical Quality Factor, Qes	0.47
Total Quality Factor, Qts	0.44
Equivalent Air Volume to Cms, Vas	7 l
Mechanical Compliance, Cms	195 μm/N
Mechanical Resistance, Rms	1 kg/s
Efficiency, ηo (%)	1.7
Effective Surface Area, Sd (m ²)	0.0140 m ²
Maximum Displacement, Xmax	1 mm.
Displacement Volume, Vd	14 cm. ³
Voice Coil Inductance, Le @ 1kHz	0.5 mH

Notes:

* The power capacity is determined according to AES2-1984 (r2003) standard. Program power is defined as the transducer's ability to handle normal music program material.

** T-S parameters are measured after an exercise period using a preconditioning power test. The measurements are carried out with a velocity-current laser transducer and will reflect the long term parameters (once the loudspeaker has been working for a short period of time).



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