

# MDM 55

## hand treated soft dome midrange

### FEATURES:

- Hexatech Aluminium voice coil
- Powerful Neodymium magnet system
- Low resonance point
- Rear chamber loading
- Compact and lightweight construction
- Magnetically shielded for A/V systems
- Sturdy gold-plated input tags



This is a no-compromise soft dome mid-range, designed for top quality, high end, multiple speaker systems. It features a powerful Neodymium magnet (22 times stronger than ferrite) enabling this unit to be both compact and ultra lightweight. It is also magnetically shielded for A/V systems. A newly developed soft cloth dome, together with a large hexatech aluminium voice coil (54mm-2<sup>1</sup>/<sub>2</sub>"<sup>2</sup>), results in high power handling capability. For enhanced low resonance (under 400Hz) and lower frequency reproduction, the magnet system is vented into a suitably damped rear chamber, made of aluminium and designed to minimise vibrations and reflections. The dome is individually hand treated with a critically damped polymer coating.

### Specifications - MDM 55

APPLICATION INFORMATION	
Overall dimensions	See diagram
Nominal Power Handling (DIN) P	200 W
Transient Power - 10ms	1000 W
Nominal Impedance Z	8 Ohms
Sensitivity 1W/1M	90.5dB
Frequency Response	500-6500 Hz
Resonant Frequency	380 Hz
VOICE COIL	
Voice Coil Diameter	54mm (2.125")
Voice Coil Height	6.0mm (0.23")
Voice Coil Former	Aluminium
Voice Coil Wire	Hexatech Aluminium
Number of Layers	2
DC Resistance	RE 6.3 Ohms
Voice Coil Inductance	LBM 0.19 mh
MAGNET SYSTEM	
Magnet System Type	Neodymium Vented
Magnetic Gap Height	HE 4.0mm (0.157")
Flux Density	B 0.90 T
Bl. Product	BXL 5.2 NA
Max. Linear Excursion (P Top)	X ± 1mm
OPERATIONAL PARAMETERS	
Suspension Compliance	CMS -
Mechanical Q Factor	OMS -
Electrical Q Factor	QES -
Total Q Factor	Q/T -
Mechanical Resistance	RMS -
Moving Mass	MMS 2.2 gm
Equivalent Gas Air Load	VAS -
Cone/Dome Material	Hand Treated Selected Fabric
Effective Piston Area	S 28.0 cm <sup>2</sup>
Net Weight	kg 0.30 kg

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The well controlled roll-off at both ends of the frequency response makes the MDM 55 easy to use with first or second order crossovers. Unequaled definition and clarity are achieved over a wide dynamic range and frequency spectrum. Distortion is very low and stereo imaging is extremely sharp. This fine mid-range unit retains the natural balance, "warmth" and "body" of sounds.

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