high fidelity range

MDT39

Compact Soft-Dome Tweeter

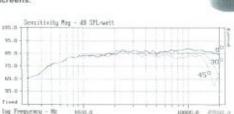
The MDT39 is a panel-mounting high quality tweeter of small dimensions. It features an ultra-compact, light-weight, vented Neodymium magnet system, coupled to a large rear air chamber for a low resonance frequency of only 750Hz. The diminutive face-plate size of only 54mm (2.125") enables mounting very close to the woofer for improved sound integration.

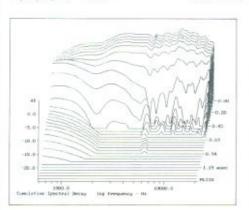
The same well-proven dome and voice coil assembly is used as in the MDT29, and is replaceable. The 28mm (1.125") hand-treated cloth dome, copper wire and aluminium former help to provide a very linear and wide frequency response – both on and off axis – with low distortion, high power handling and lack of sound pressure level compression.

The superior power handling and low resonance frequency of the MDT39 enables the tweeter to safely be used with 6dB per octave filters having a relatively low crossover frequency.

MDT39 delivers a very fine standard of performance quite regardless of size. Indeed, certain improvements on the ceramic-magnet MDT29 have been incorporated.

MDT39 has a deep rear chamber with an inverted conical end profile for strength and to minimise internal reflections; it is filled with dense natural wool felt for optimum damping and reflection absorption. The efficient enclosed magnetic circuit virtually eliminates stray magnetic fields, allowing use close to colour TV screens.





Specification

Overall Dimensions 54mm x 54mm (2.125") x 58mm(2.28") Facia Dimensions 54mm x 54mm x 3mm(2.125" x 2.125" x 0.12") Nominal Power Handling (Din) Transient Power - 10ms 80W 500W 28mm (1.125") Voice Coil Diameter Voice Coil Type/Former Frequency Response FS - Resonant Frequency Copper Wire/Aluminium 2200-20000 Hz 750 Hz ± 10% Sensitivity 1W/1m Z - Nominal Impedance RE - DC Resistance 88dB 8 ohms 5.3 ohms Harmonic Distortion for 96dB SPL Intermodulation Distortion for 96dB SPL LBM - Voice Coil Inductance @ 1kHz < 0.9% < 0.25% 0.06 mH Magnetic Gap Width HE - Magnetic Gap Height Voice Coll Height 0.75mm (0.029") 2.5mm (0.098") 2.5mm (0.098") BL Product (BXL) Qms - Mechanical Q Factor Qes - Electrical Q Factor 2.6 0.88 Qes - Electrical O Factor Q/T - Total O Factor Vas - Equivalent Cas Air Load MMS - Moving Mass SD - Effective Cone/Dome Area Cane/Dome Material 0.59 0.01 litres 0.46 gm Hand Treated Fabric 0.90 kg Nett Weight

Specifications given are as after at least 45 minutes of high power, low frequency running, or 24 hours normal power operation.



