

MDT40

Compact Soft-Dome Tweeter

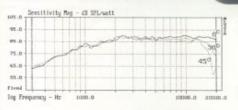
The MDT40 is a panel-mounting high quality tweeter of small dimensions. It features an ultra-compact, light-weight, vented Neodymium magnet system, coupled to a large rear air chamber for a low resonance frequency of only 750Hz. The diminutive face-plate size of only 54mm (2.125") enables mounting very close to the woofer for improved sound integration.

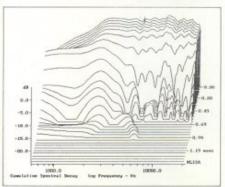
The same well-proven dome and voice coil assembly is used as in the MDT30, and is replaceable. The 28mm (1.125") hand-treated cloth dome, Hexatech aluminium wire, aluminium former and braided lead-out wires, help to provide a very linear and wide frequency response – both on and off axis – with low distortion, high power handling and lack of sound pressure level compression.

The superior power handling and low resonance frequency of the MDT40 enables the tweeter to safely be used with 6dB per octave filters having a relatively low crossover frequency.

MDT40 delivers a very fine standard of performance quite regardless of size. Indeed, certain improvements on the ceramic-magnet MDT30 have been incorporated.

MDT40 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 x 3mm(2.125") x 58mm(2.88") Facia Dimensions 54mm x 54mm x 3mm(2.125" x 2.125" x 0.12") Nominal Power Handling (Din) Transient Power - 10ms Voice Coil Diameter Voice Coil Type/Former 120W 28mm (1.125") Hexatech Aluminium 2200-20000 Hz Frequency Response
FS - Resonant Frequency
Sensitivity 1W/1m
Z - Nominal Impedance
RE - DC Resistance 750 Hz ± 10% 89dB 8 ohms 5.2 ohms Harmonic Distortion for 96dB SPL < 0.8% Intermedulation Distortion for 96dB SPL LBM - Voice Coil Inductance @ 1kHz Magnetic Gap Width 0.05 mH 0.75mm (0.029") Magnetic Gap Width
HE - Magnetic Gap Height
Voice Coll Height
BL Product (BXL)
Cms - Mechanical Q Factor
Qes - Electrical Q Factor
Q/T - Total Q Factor
Vas - Equivalent Cas Air Load
MMS - Moving Mass
SD - Effective Cone/Dome Area
Cone/Dome Material
Nett Weight 2.5mm (0.098") 2.7mm (0.106") 2.2 0.89 2.80 0.68 0.01 litres 0.46 gm 7 cm² Nett Weight 0.90 kg

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



