**MDT 40**

**Compact Soft-Dome Tweeter**

The MDT 40 is a panel-mounting high quality tweeter of small dimensions. It features an ultracompact, 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 MDT36, and is replaceable. The 78mm (3") 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 MDT 40 enables the tweeter to be used in subwoofers or in crossover filters having a relatively low crossover frequency. MDT 40 delivers a very fine standard over the entire frequency range, regardless of size and type. Indeed, certain improvements on the ceramic-magnet MDT36 have been incorporated. MDT40 has a deep rear chamber with an inverted conical end profile for strength and to minimize 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.

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**Specification**

- Overall Dimensions: 54mm (2.125") x 58mm (2.28")
- Ferrite Dimensions: 54mm x 54mm x 3mm (2.125" x 2.125" x 0.12")
- Nominal Power Handling (8Ω): 125W
- Transient Power: 300W
- Voice Coil Diameter: 28mm (1.125")
- Voice Coil Type/Former: Hexatech Aluminium
- Frequency Response: 2200-22000 Hz
- FS - Resonant Frequency: 750 Hz: 1% Sensitivity: 95dB
- Z - Nominal Impedance: 8 ohms
- RE - DC Resistance: 5.2 ohms
- Intermodulation Distortion: 0.01%<sub>2</sub>
- IMN - Voice Coil Inductance @ 1kHz: 0.001H
- Magnetic Gap Width: 0.75mm (0.029")
- HE - Magnetic Gap Height: 2.5mm (0.099")
- Voice Coil Height: 2.1mm (0.10")
- BLN - Product (dB): 1.2
- Oms - Mechanical Q Factor: 0.1
- Qms - Electrical Q Factor: 2.8
- QTF - Total Q Factor: 0.68
- Vea - Equivalent Cap Air Load: 0.04 litres
- IMN - Moving Mass: 0.16 gr
- SO - Effective Cone/Dome Area: 7 mm²
- Core/Side Material: Hand Treated Fabric
- Net 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.