

Compact neodymium magnet tweeter for high quality speaker design in small cabinets.

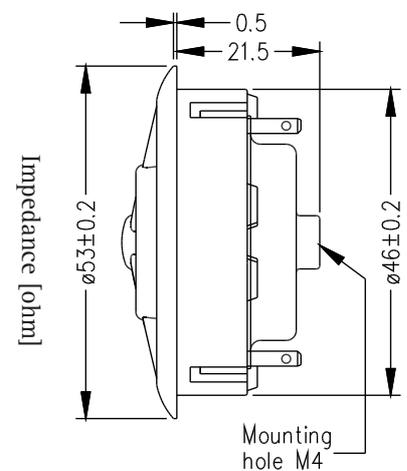
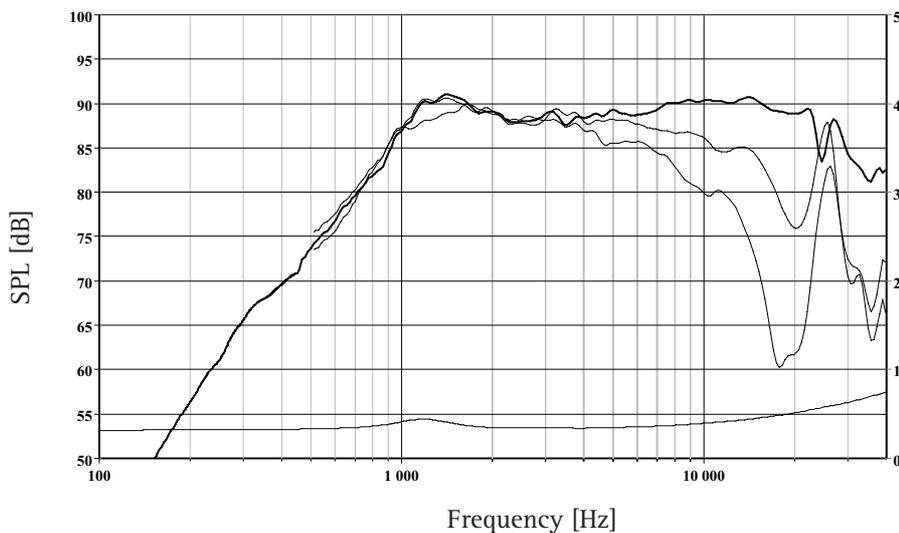
A critically designed aluminium/magnesium alloy diaphragm behaves like a piston throughout the audible frequency range, resulting in a good dispersion also above 10kHz.

A wide roll surround together with a double chamber magnet system results in a low fundamental frequency.

A critically designed diffusor compensates for a slight axial roll off towards 20 kHz and reduces resonances above 20kHz.

The construction of the magnet system results in very low magnetic stray fields since the magnet is enclosed in a soft steel housing. Thus, this unit is immediately ready for Audio-video systems.

The voice coil is immersed in magnetic fluid, allowing high power handling capacity and simplified crossover design.



The frequency responses above show measured free field sound pressure in 0, 30, and 60 degrees, mounted in a 0.6m by 0.8m baffle. Input 2.83 Vrms, microphone distance 0.5m, normalized to SPL 1m. The impedance is measured without baffle using a 2V sine signal.

Nominal Impedance	4 Ohms	Voice Coil Resistance	2.7 Ohms
Recommended Frequency Range	2500 - 30000 Hz	Voice Coil Inductance	0.03 mH
Short Term Power Handling *	220 W	Force Factor	1.9 N/A
Long Term Power Handling *	90 W	Free Air Resonance	1170 Hz
Characteristic Sensitivity (2.83V, 1m)	90 dB	Moving Mass	0.30 g
Voice Coil Diameter	26 mm	Effective Piston Area	7.5 cm <sup>2</sup>
Voice Coil Height	1.1 mm	Magnetic Gap Flux Density	1.2 T
Air Gap Height	2 mm	Magnet Weight	0.01 kg
Linear Coil Travel (p-p)	0.9 mm	Total Weight	0.1 kg