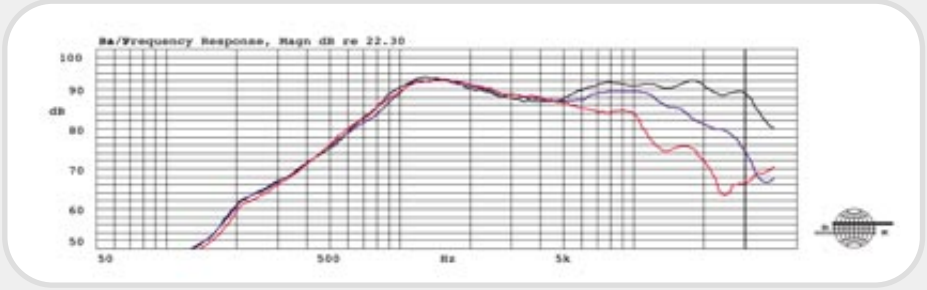
MD 100

Frequency response • 2nd and 3rd harmonic distortion

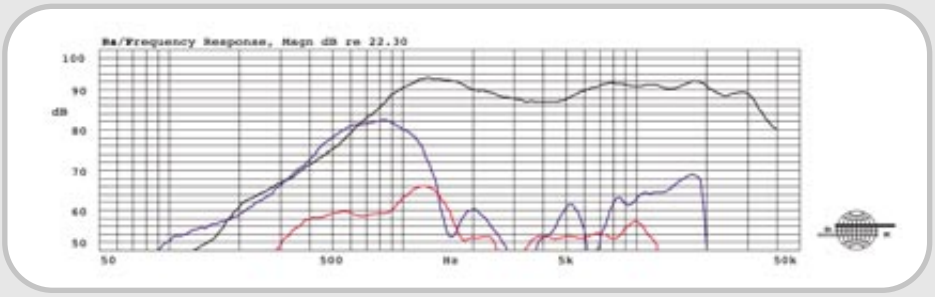


Thick line: on-axis response
Dashed line: 30° horizontal
Thin line: 60° horizontal

Measurement conditions
Level: 2.83 V
Distance: 1 m

Measured in a large baffle

Frequency response • 2nd and 3rd harmonic distortion



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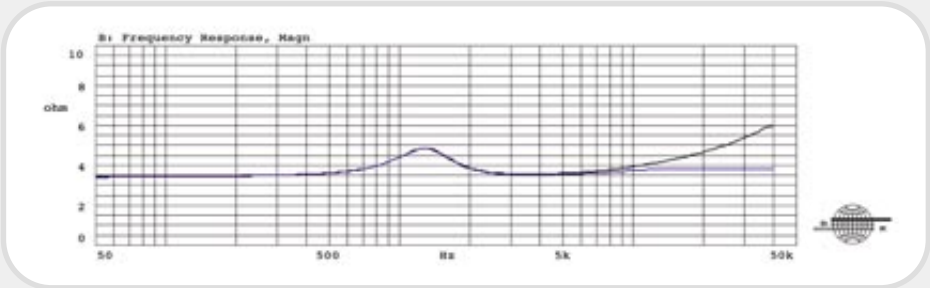

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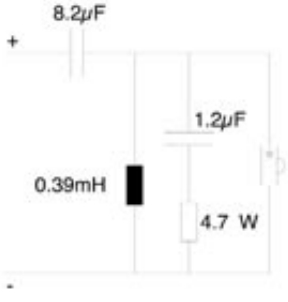
Measured in a large baffle

The MD100 has a smooth and wide frequency range extending to beyond 30 kHz. It exhibits excellent dispersion even 60 degrees off-axis, which makes it ideal for use in a car, where the listener in most installations will be off the tweeter-axis.

The distortion is quite low and at frequencies below approximately 2.5 kHz it will be greatly reduced by the crossover.

The impedance curve is extremely linear, making it an easy load for the amplifier.

The driver can be mounted in a wide range of locations, e.g. in the dashboard, the doors or in the hat shelf. The drawing shows a typical second order crossover. The indicated values will make it match the MD140/2.



Typical crossover

MD 100

Technical Specifications

Thiele Small Parameters:		Magnet and Voice Coil	
Nominal Impedance (Znom):	4 Ohm	Voice coil diameter (dc):	28mm
DC Resistance (Re):	3.2 Ohm	Voice coil height (hc):	1.7mm
Voice Coil Inductance (Le):	0.014 mH	Voice coil layers (nc):	2
Resonance Frequency (fs):	1360 Hz	Magnetic gap height (hg):	2mm
Mechanical Q Factor (Qms):	1.0	Linear excursion:	- mm (peak to peak)
Electrical Q Factor (Qes):	2.2	Max. excursion:	- mm (peak to peak)
Total Q Factor (Qts):	0.7	Magnet weight (wm):	0.02 kg
Mechanical Resistance (Rms):	- kg/s	Power Handling	
Moving Mass (incld. air load, Mms):	0.35g	Nominal long term IEC:	100W (crossover dependent)
Suspension Compliance (Cms):	- mm/N	Transient (10ms):	500W
Effective Dome Diameter (d):	31.3 mm	Mechanical Properties	
Effective Piston Area (Sd):	7.7 cm squared	Net Weight:	0.126 kg
Equivalent Volume (Vas):	- l	Overall dimension:	62.2 mm diameter x 43mm
Force Factor (Bl):	2 Tm		
Recommended Frequency Range:	2500 - 30000 Hz		