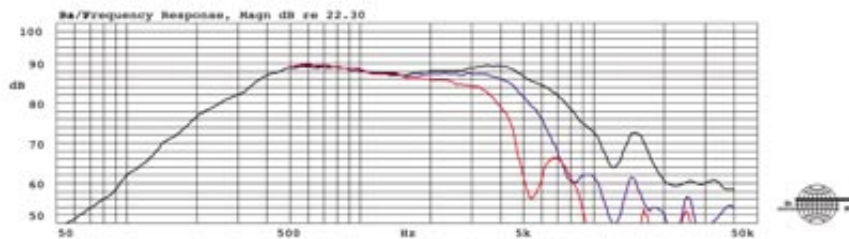


MD 140/2

Frequency response • on-axis, 30° and 60° off-axis



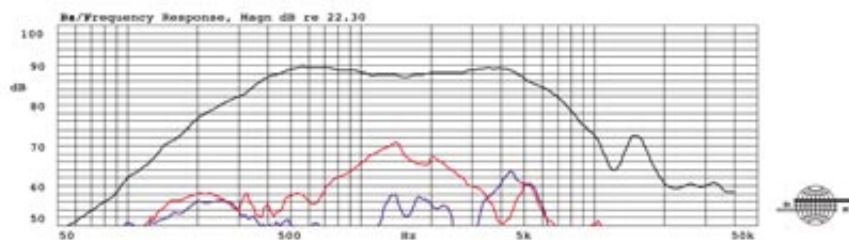
Thick line: on-axis response
Dashed line: 30° horizontal
Thin line: 60° horizontal

Measurement conditions

Level: 2.83 V
Distance: 1 m.

Measured in a large baffle

Frequency response • 2nd and 3rd harmonic distortion



Thick line: on-axis response
Dashed line: 2nd harmonic
Thin line: 3rd harmonic

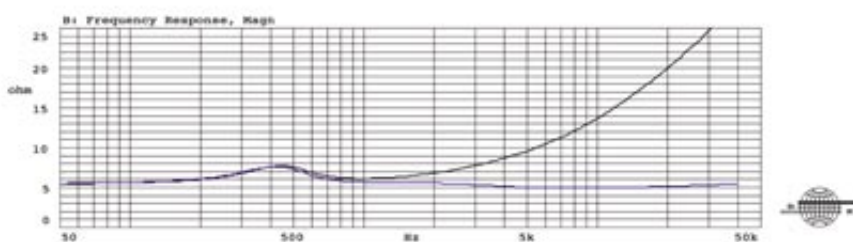
2nd and 3rd harmonic raised 30 dB

Measurement conditions

Level: 2.83 V
Distance: 1 m

Measured in a large baffle

Impedance • with and without impedance correction circuit



Thick line: impedance, free air
Thin line: impedance, free air with compensation

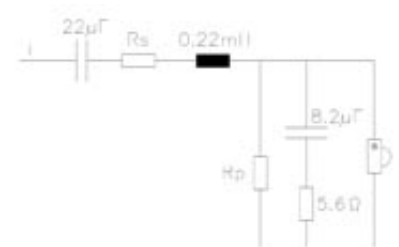
See drawing below.

Measurement conditions

Level: 0.2 V
Driver in free air

The curves exhibit the MD140/2 as a dedicated midrange driver with an excellent frequency response and an exemplary roll-off below 500 Hz and beyond 5 kHz. Furthermore, the fine dispersion and frequency response make the MD140/2 an ideal choice for high quality 3-way installations. The impedance of the MD140/2 is very linear, making it an easy load for the amplifier while also simplifying crossover design.

The driver can be mounted in a wide range of locations, e.g. in the dashboard, the doors or in the hat shelf. A typical first order crossover is shown on the drawing. Depending on the other drivers used, the output may need to be damped using R_s and R_p in order to make the levels match. Typical values of R_s and R_p are 2.2 W and 15 W respectively. With these values it will match the MD100.



Typical crossover

MD 140/2

Technical Specifications

Thiele Small Parameters:		Magnet and Voice Coil	
Nominal Impedance (Znom):	8 Ohm	Voice coil diameter (dc):	75 mm
DC Resistance (Re):	5.1 Ohm	Voice coil height (hc):	5.5 mm
Voice Coil Inductance (Le):	0.13 mH	Voice coil layers (nc):	2
Resonance Frequency (fs):	480 Hz	Magnetic gap height (hg):	3 mm
Mechanical Q Factor (Qms):	1.17	Linear excursion:	2.5 mm
Electrical Q Factor (Qes):	2.43	Max. excursion:	5 mm
Total Q Factor (Qts):	0.79	Magnet weight (wm):	0.24 kg
Mechanical Resistance (Rms):	12.4 kg/s	Power Handling	
Moving Mass (incl. air load, Mms):	4.8 g	Nominal long term IEC:	100W (crossover dependent)
Suspension Compliance (Cms):	- mm/N	Transient (10ms):	1000W
Effective Dome Diameter (d):	81 mm	Mechanical Properties	
Effective Piston Area (Sd):	52 cm squared	Net Weight:	0.75 kg
Equivalent Volume (Vas):	- l	Overall dimension:	121 mm diameter x 66 mm
Force Factor (Bl):	5.5 Tm		
Recommended Frequency Range:	700 - 6000 Hz		