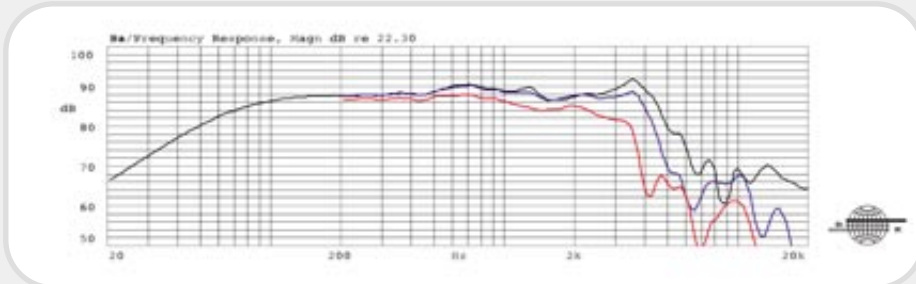


MW 160

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

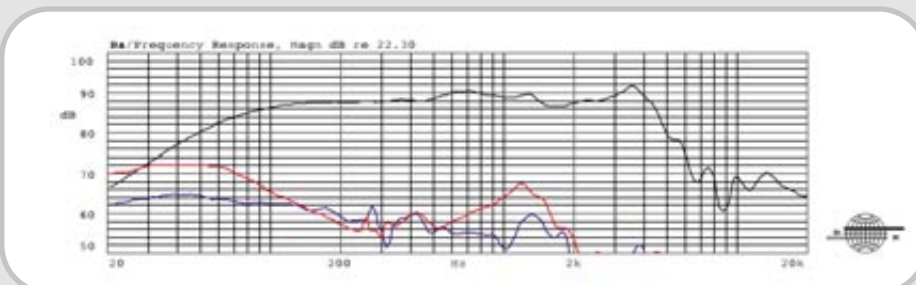


Thick line: on-axis response
 Dashed line: 30° horizontal
 Thin line: 60° horizontal

Measurement conditions

Level: 2.83 V
 Distance: 1 m
 Box volume: 15.6 l

Frequency response • 2nd and 3rd harmonic distortion



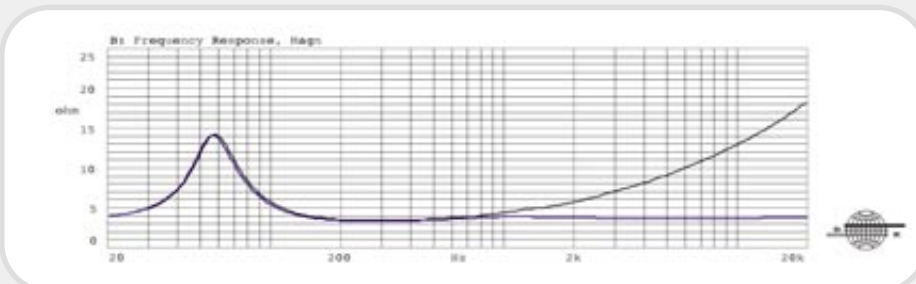
Thick line: on-axis response
 Dashed line: 2nd harmonic
 Thin line: 3rd harmonic

2nd and 3rd harmonic raised 20 dB

Measurement conditions

Level: 2.83 V
 Distance: 1 m
 Box volume: 15.6 l

Impedance • with and without impedance correction circuit



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

See drawing below.

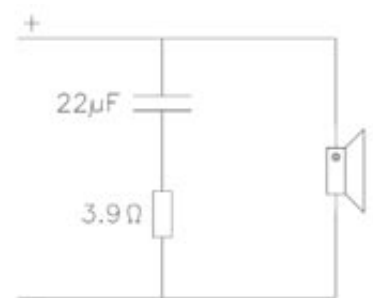
Measurement conditions

Level: 0.2 V
 Driver in free air

The driver exhibits a very linear frequency response and a good dispersion up to 3.5 kHz even 60 degrees off-axis. This, combined with the low distortion and the linear impedance, makes it possible to achieve excellent results even with simple crossovers.

The driver is a simple load for the amplifier and the use of an impedance correction circuit will make it even more simple.

The low suspension compliance makes the driver suitable for small enclosures normally used in cars while also allowing for mounting without a dedicated enclosure, e.g. in a hat shelf or in a door.



Impedance correction circuit

MW 160

Technical Specifications

Thiele Small Parameters:		Magnet and Voice Coil	
Nominal Impedance (Znom):	4 Ohm	Voice coil diameter (dc):	75 mm
DC Resistance (Re):	3.0 Ohm	Voice coil height (hc):	10.9 mm
Voice Coil Inductance (Le):	0.16 mH	Voice coil layers (nc):	2
Resonance Frequency (fs):	55 Hz	Magnetic gap height (hg):	5 mm
Mechanical Q Factor (Qms):	2.42	Linear excursion:	6 mm
Electrical Q Factor (Qes):	0.65	Max. excursion:	17 mm
Total Q Factor (Qts):	0.51	Magnet weight (wm):	0.53 kg
Mechanical Resistance (Rms):	2.33 kg/s	Power Handling	
Moving Mass (incl. air load, Mms):	16.2 g	Nominal long term IEC:	120W (crossover dependent)
Suspension Compliance (Cms):	0.51 mm/N	Transient (10ms):	1000W
Effective Dome Diameter (d):	123.6 mm	Mechanical Properties	
Effective Piston Area (Sd):	120 cm squared	Net Weight:	1.2 kg
Equivalent Volume (Vas):	10.4 l	Overall dimension:	175 mm diameter x 77 mm
Force Factor (Bl):	5.1 Tm		
Recommended Frequency Range:	40-4000 Hz		
Recommended closed box volume:	7.1-21.2 l		