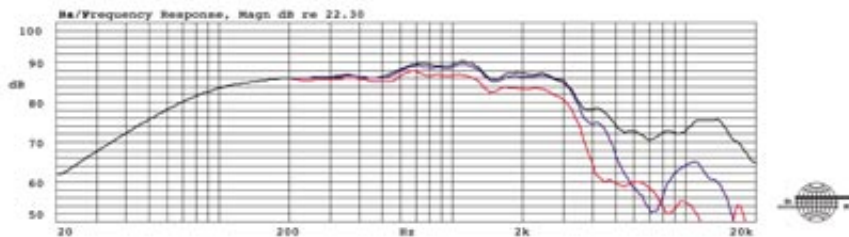


# MW 150

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

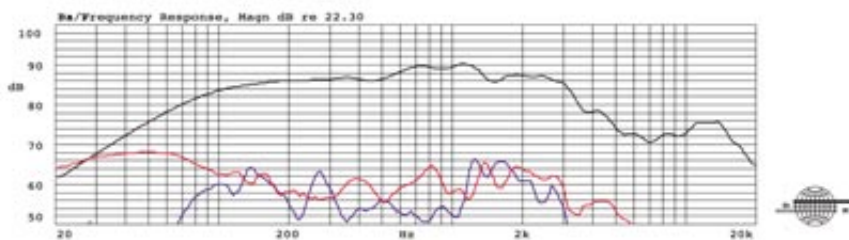


Thick line: on-axis response  
 Dashed line: 30° horizontal  
 Thin line: 60° horizontal

### Measurement conditions

Level: 2.83 V  
 Distance: 1 m  
 Box volume: 8.4 l

## Frequency response • 2nd and 3rd harmonic distortion



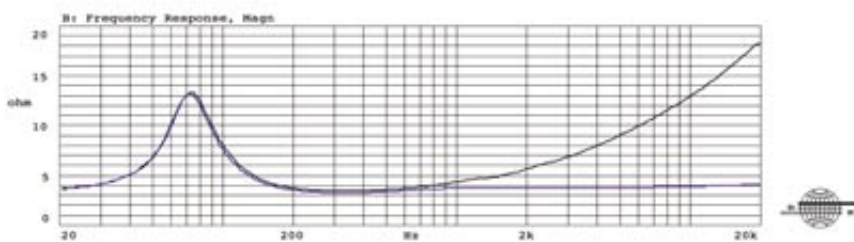
Thick line: on-axis response  
 Dashed line: 2nd harmonic  
 Thin line: 3rd harmonic

2nd and 3rd harmonic raised 20 dB

### Measurement conditions

Level: 2.83 V  
 Distance: 1 m  
 Box volume: 8.4 l

## Impedance • with and without impedance correction circuit



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

See drawing below.

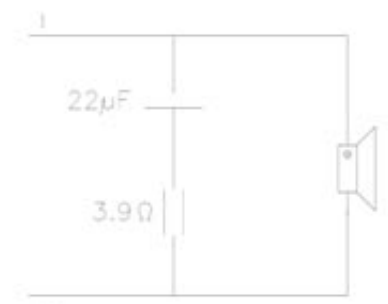
### Measurement conditions

Level: 0.2 V  
 Driver in free air

The frequency response curves show the MW150 as a well behaved driver with a smooth frequency response both on- and off-axis. Furthermore, the distortion is quite low, especially the 3rd harmonic distortion, which is considered to be the most disturbing. These qualities enable the user to build a small high quality system with excellent midrange reproduction.

The impedance curves show that the driver is a simple load for the amplifier. 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 the hat shelf or in the door.



Impedance correction circuit

# MW 150

## Technical Specifications

<b>Thiele Small Parameters:</b>		<b>Magnet and Voice Coil</b>	
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):	70 Hz	Magnetic gap height (hg):	5 mm
Mechanical Q Factor (Qms):	2.25	Linear excursion:	6 mm
Electrical Q Factor (Qes):	0.68	Max. excursion:	15 mm
Total Q Factor (Qts):	0.52	Magnet weight (wm):	0.53 kg
Mechanical Resistance (Rms):	2.41 kg/s	<b>Power Handling</b>	
Moving Mass (incl. air load, Mms):	12.3 g	Nominal long term IEC:	100W (crossover dependent)
Suspension Compliance (Cms):	0.42 mm/N	Transient (10ms):	1000W
Effective Dome Diameter (d):	105 mm	<b>Mechanical Properties</b>	
Effective Piston Area (Sd):	87 cm squared	Net Weight:	101 kg
Equivalent Volume (Vas):	4.5 l	Overall dimension:	145.5 mm diameter x 70 mm
Force Factor (Bl):	4.9 Tm		
Recommended Frequency Range:	55 - 3500 Hz		
Recommended closed box volume:	5.7 -14.2 l		