

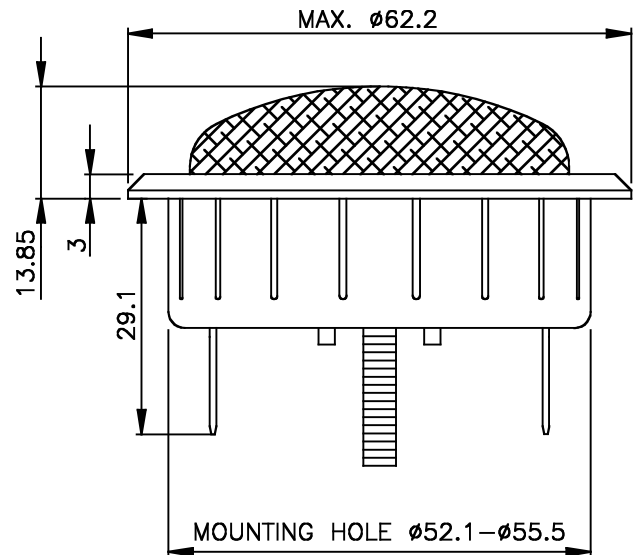
# Tweeter Esotec MD 102

The MD 102 is a 28 mm soft dome tweeter designed for high performance 2- or 3-way systems.

The optimized dome geometry and the low mass of the moving parts ensure a very transparent and detailed reproduction of the high frequencies.

The well damped resonance frequency and the cooling capabilities from the ferrofluid in the magnetic gap provide high power handling even with simple crossovers.

- Coated textile dome eliminates any high frequency break-ups
- Powerful neodymium magnet system
- Protective grille
- Open and detailed high frequency reproduction
- Damped cavity beneath the dome
- Ferrofluid adds damping and increases power handling
- Aluminium voice coil wire results in a low moving mass
- Shallow mounting depth
- Strong 6.4 mm terminals



Thiele Small Parameters		
Nominal impedance	Znom	8 Ω
DC resistance	Re	5,6 Ω
Voice coil inductance	Le	- mH
Resonance frequency	fs	1300 Hz
Mechanical Q factor	Qms	-
Electrical Q factor	Qes	-
Total Q factor	Qts	-
Mechanical resistance	Rms	- kg/s
Moving mass (incl. air load)	Mms	- g
Suspension compliance	Cms	- mm/N
Effective dome diameter	d	- mm
Effective piston area	Sd	7.7 cm <sup>2</sup>
Equivalent volume	Vas	- l
Force factor	Bl	- Tm
Recommended frequency range	2200-30000 Hz	

Magnet and Voice Coil Properties		
Voice coil diameter	dc	28 mm
Voice coil height	hc	1.7 mm
Voice coil layers	nc	2
Magnetic gap height	hg	2 mm
Linear excursion, peak to peak		- mm
Max. excursion, peak to peak		- mm
Magnet weight	wm	- kg

Power Handling	
Nominal long term IEC*	100 W
Transient (10 ms)	500 W

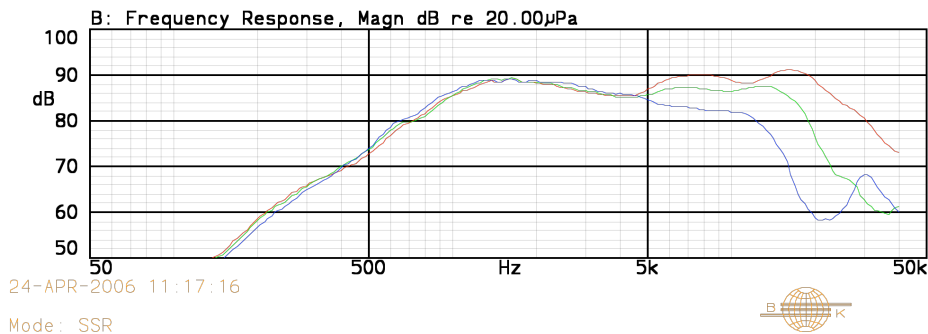
Mechanical Properties	
Net weight	0.126 kg
Overall dimension	ø62.2x43 mm

\* Depending on crossover

All specifications subject to change without notice

# Tweeter Esotec MD 102

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

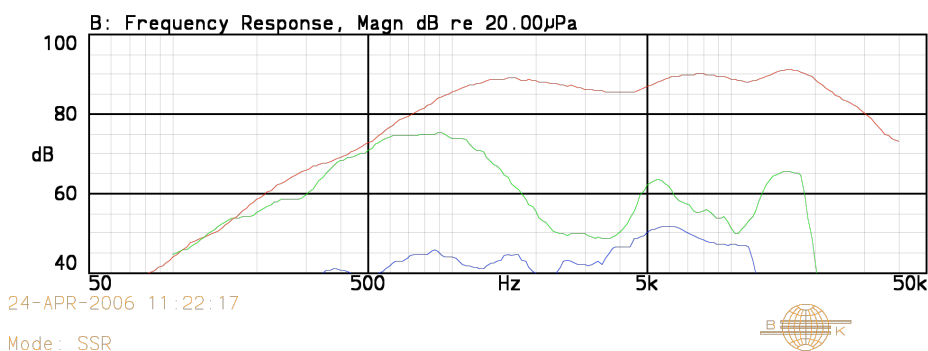


Red line: on-axis response  
Green line: 30° horizontal  
Blue line: 60° horizontal

Measurement conditions  
Level: 2.83 V  
Distance: 1 m

Measured in a large baffle

Frequency response • 2nd and 3rd harmonic distortion



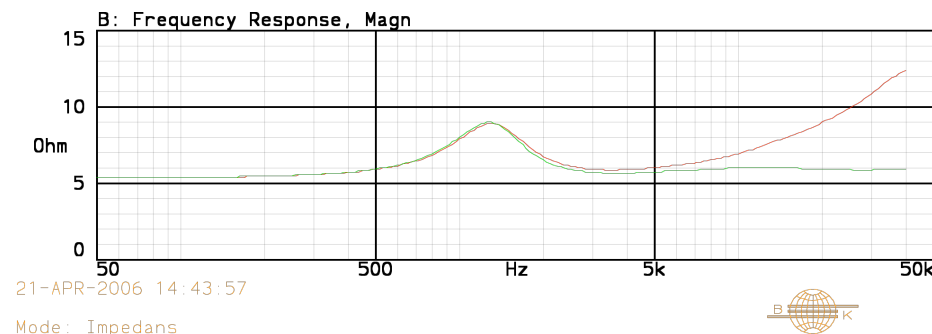
Red line: on-axis response  
Green line: 2nd harmonic  
Blue line: 3rd harmonic

2nd and 3rd harmonic raised 20 dB

Measurement conditions  
Level: 2.83 V  
Distance: 1 m

Measured in a large baffle

Impedance • with and without impedance correction circuit



Red line: impedance, free air  
Green line: impedance, free air with compensation. See drawing below.

Measurement conditions  
Level: 3.16 V, 50 ohm  
Driver in free air

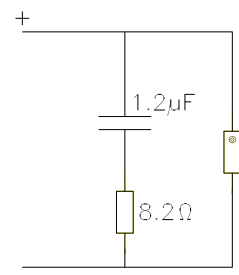
The MD 102 has a smooth and wide frequency range extending to beyond 30 kHz. It exhibits excellent dispersion even 60 degrees off-axis, which makes it ideal for use in a car, where the listener in most installations will be off the tweeter-axis.

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.

Impedance correction circuit



Dynaudio A/S, 8660 Skanderborg, Denmark

Sales & Marketing

Dynaudio International GmbH, Ohepark 2, 21224 Rosengarten, Germany, Phone +49 4108 - 4180 - 0