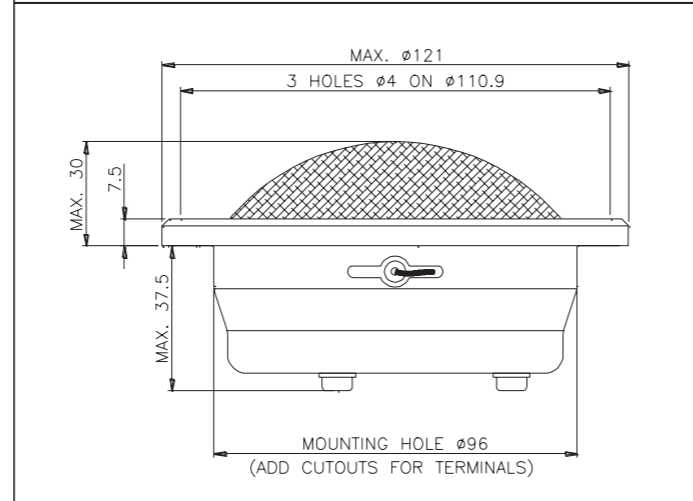


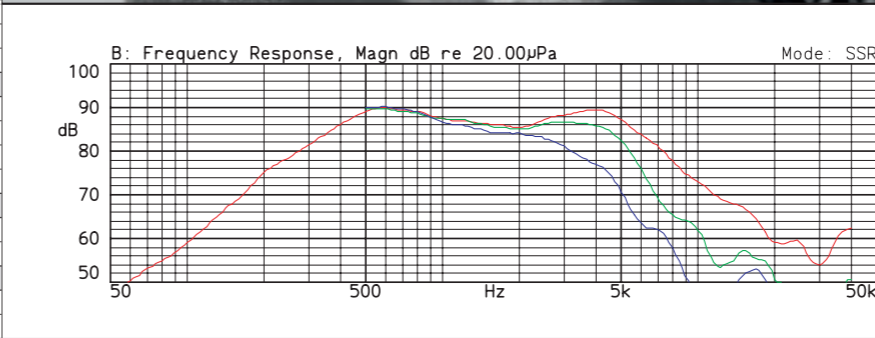
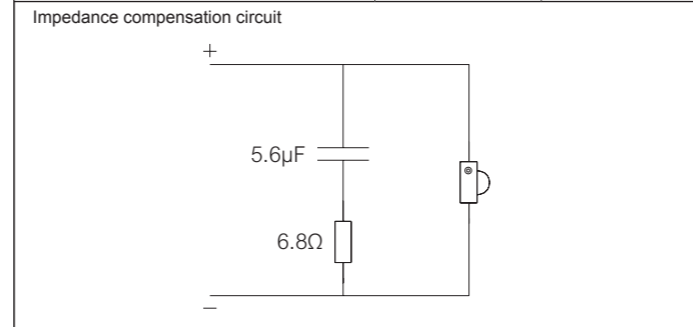
Similar to the MD 102 tweeter in principle, the new Esotec MD 142 is a 75mm (3-inch) diameter soft dome midrange design intended for high performance three- and four-way audio systems.

As typical of all Dynaudio tweeters and soft-dome midrange units, the MD 142 features a large diameter aluminum voice coil with a centered magnet housed in a relatively compact and shallow enclosure. Suspended in ferrofluid for controlled damping, an extremely light aluminium voice coil drives the dome. Aluminium has proven to be an ideal material for Dynaudio's oversized voice coils due to its extremely low mass, which in turn allows a larger coil diameter and more windings as compared to conventional designs. The heat produced by the voice coil is dissipated to the magnet system with the help of ferrofluid cooling liquid. The precisely optimized dome geometry and the low mass of the internal moving parts ensure a very transparent and detailed reproduction of all frequencies. In most dome driver designs, the surround of the driver and the outer edge of the driver membrane are moving in opposite phase and canceling each other's output at various frequencies. Dynaudio has undertaken extensive research into the shaping of these parts to ensure that the long linear excursions essential to high output levels are maintained without this type of interference.

The Esotec MD 142 is housed in a compact self-contained enclosure with a vented pole piece and damped rear chamber. It includes an integrated protective grille, and requires no additional airspace for installation. It thus may easily be integrated into a wide range of install applications and locations, including kick-panel, in-dash, in-door or rear deck mount placement. In tandem with the incredibly powerful Neodymium magnet, the sound reproduced by the MD 142 is smooth, detailed, dynamic and simply amazing.

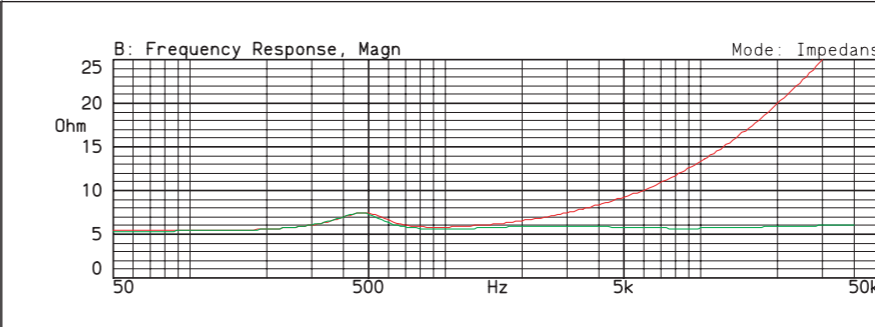


| Thiele Small Parameters          |      |                    |
|----------------------------------|------|--------------------|
| Nominal impedance                | Znom | 8 Ω                |
| DC resistance                    | Re   | 5.3 Ω              |
| Voice coil inductance            | Le   | - mH               |
| Resonance frequency              | fs   | 475 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   | 52 cm <sup>2</sup> |
| Equivalent volume                | Vas  | - l                |
| Force factor                     | BL   | - Tm               |
| Recommended frequency range      |      | 700–6000 Hz        |
| Magnet and Voice Coil Properties |      |                    |
| Voice coil diameter              | dc   | 75 mm              |
| Voice coil height                | hc   | 5.5 mm             |
| Linear excursion, peak to peak   |      | 2.5 mm             |
| Max. excursion, peak to peak     |      | 5 mm               |
| Power Handling                   |      |                    |
| Nominal long term IEC            |      | 100 W              |
| Transient (10 ms)                |      | 1000 W             |
| Mechanical Properties            |      |                    |
| Net weight                       |      | 0.75 kg            |
| Overall dimension                |      | ø 121 x 66 mm      |



**SPL**  
 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

**Facts**  
 Coated textile dome  
 Large 75 mm voice coil ensures high power handling and low compression  
 Internal magnet structure with vented pole piece  
 Aluminium voice coil wire results in a low moving mass



**Impedance**  
 (with and without impedance correction circuit)  
 Red line: impedance, free air  
 Green line: impedance, free air with compensation.  
 Measurement conditions:  
 Level: 3.16 V, 50 ohm  
 Driver in free air

Shallow mounting depth  
 Integrated protective grille  
 Ferrofluid adds damping and increases power handling