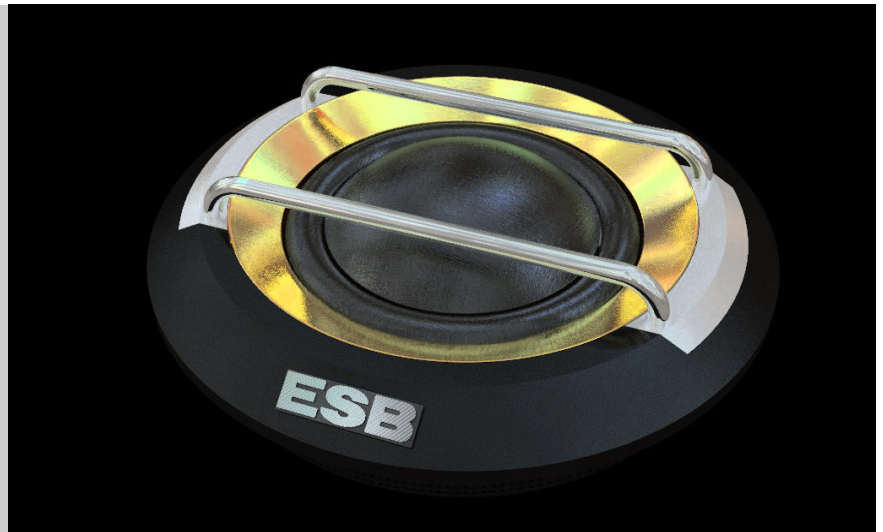


28 mm aluminum voice coil
 32.8 mm nominal diameter
 High grade neodymium magnet
 Torcon® soft dome
 CNC avional faceplate
 Ferrofluid cooling and damping
 Acoustic resistance Qts control
 Computer optimized design
 Motor metal parts CNC machined
 Under dome dB Cloth® damping material



All the parts that make up this tweeter have been made with the CNC process, this is very expensive and long, but ensures perfect geometry and impeccable aesthetics. A mix of precious materials such as brass, stainless steel and Avional aluminum are used together for a unique product.

The tweeter uses a very large vented neodymium motor magnet optimized with computer simulations (FEA) to obtain a great efficiency and improve linearity along all the voice coil's excursion.

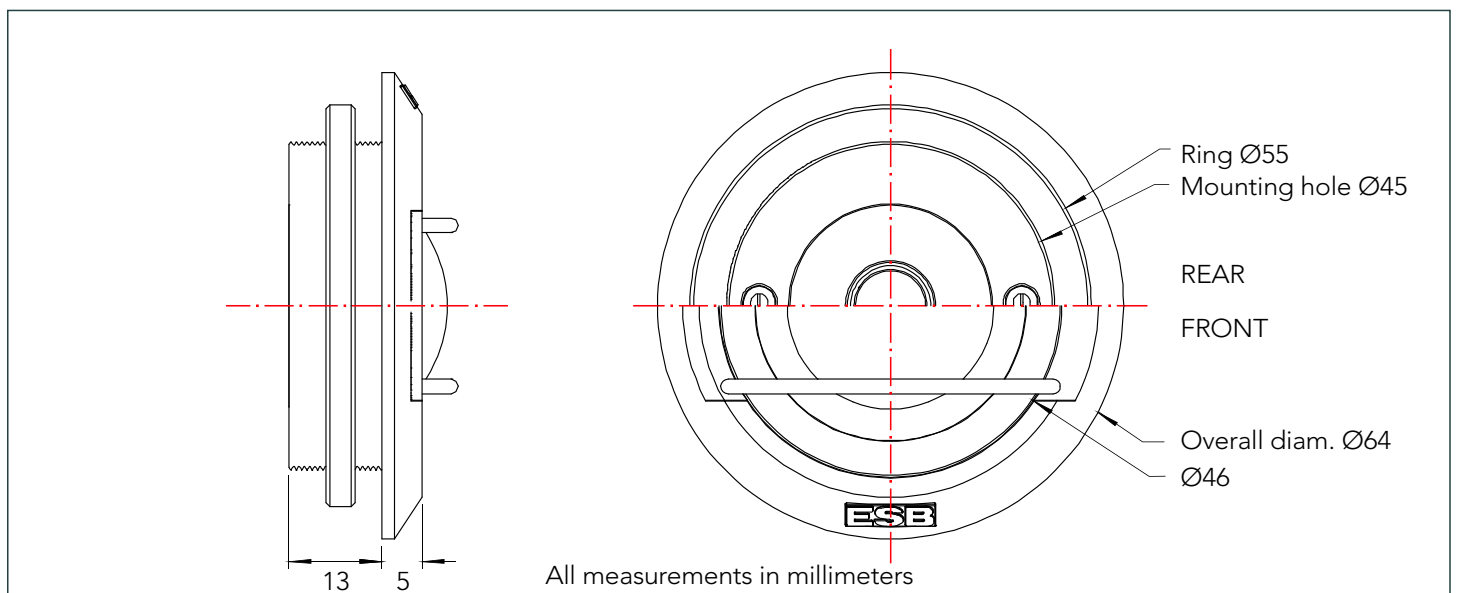
Neodymium magnet is a high-grade type to kill magnetic loss at elevated temperature and concentrate more force in less volume.

Torcon® soft dome, of an exclusive Polyphenylene Sulfide (PPS) with a high-performance fiber that offers superb heat resistance, low weight, excellent self-damping, and a free resonance frequency response above the audible range.

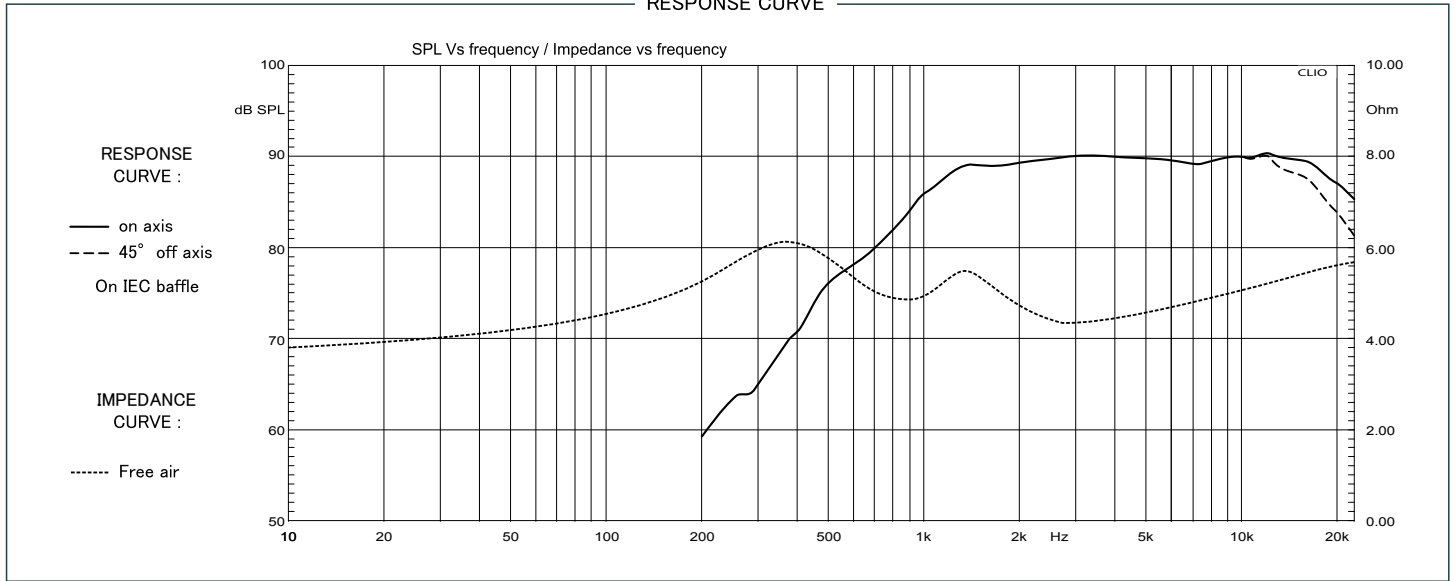
The semi-catenary profile on our diaphragm provides maximum stiffness at the tip of the dome. The result is clean, sooth and transparent sound reproduction with high efficiency from 940Hz to 25KHz at high power handling capacity.

The center ventilation hole provides an optimal cooling of moving coil to be able to handle high power without dynamic compression and reduces the compression of the air at the back of the dome with a great reduction of distortion and extended response to lower frequency. A special acoustic resistance helps to control the tweeter Qts. Residual resonance is killed by the dB Cloth® under-dome damping material, which extends the frequency response to the lower limits and reduces harmonic distortion.

To fix the tweeter you can use the classic solution that ESB has been proposing for decades: a practical aluminum threaded ring.

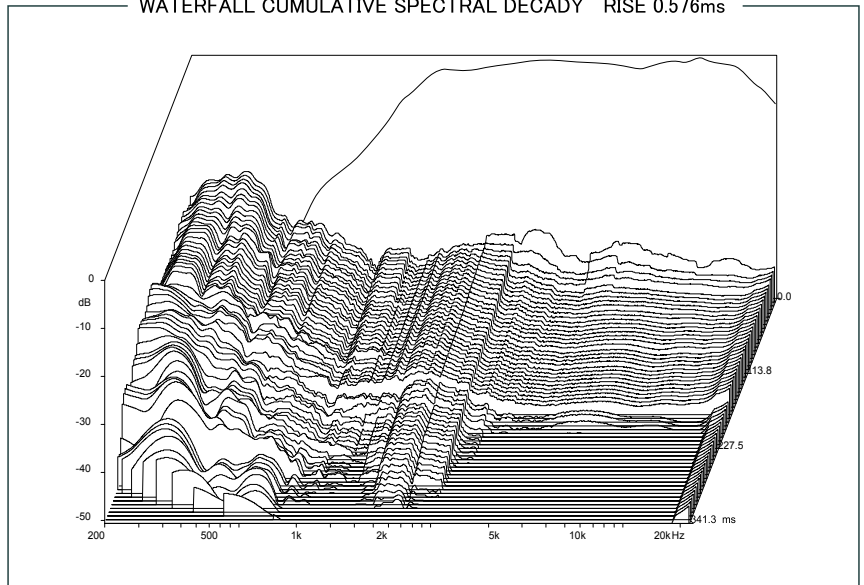


RESPONSE CURVE



| SPECIFICATIONS | | | |
|--|------------------------------|------------------|-----------------|
| Technical Characteristics | Symbol | Value | Units |
| GENERAL DATA | | | |
| Overall Dimension | D x h | 64 x 18 | mm |
| Nominal Power Handling (AES)* | P | 110 | W |
| Transient Power * | Pp | 220 | W |
| Sensitivity 1W/1m | SPL | 91 | dB SPL |
| Frequency Response | | 940 – 25.000 | Hz |
| Net Weight | | 173 | g |
| Dome Material | | Torcon® | |
| *Nominal and Transient power @ High Pass 2.6KHz-12db/Oct | | | |
| ELECTRICAL DATA | | | |
| Nominal Impedance | Z | 4 | Ω |
| DC Resistance | Re | 3.4 | Ω |
| Voice coil Inductance | Lbm | 0.0517 | μH |
| VOICE COIL AND MAGNET PARAMETERS | | | |
| Voice Coil Diameter | Dia | 28 | mm |
| Voice coil Height | h | 2.5 | mm |
| Number of layers | n | 2 | |
| Voice Coil Former | | Aluminum | |
| Magnet System | | Neodymium Vented | |
| Magnetic Gap Height | HE | 3 | mm |
| Max Linear excursion | Xmax | ±0.5 | mm |
| Flux density | B | 1.3 | T |
| BL Product | BxL | 4.35 | Na |
| Magnet dimension | ∅ x h | 27 x 6 | mm |
| Magnet weight | m | 25.7 | g |
| T&S PARAMETERS | | | |
| Mechanical Q Factor | Qms | 0.744 | |
| Electrical Q Factor | Qes | 0.928 | |
| Total Q Factor | Qts | 0.413 | |
| Suspension Compliance | Cms | 0.38 | N/m |
| Mechanical Resistance | Rms | 1.54 | Ω |
| Moving Mass | mms | 0.72 | g |
| Eq. Comp. Air Load | VAS | 0.012 | l |
| Resonance Frequency | Fs | 540 | Hz |
| Effective Piston Area | SD | 8.49 | cm ² |
| CROSSOVER VALUE | | | |
| Fc | Crossover frequency | Hz | |
| L | Inductor | mH | |
| C | Capacitor | μF | |
| R | Resistance | Ω | |
| P | Reduction from Nominal Power | % | |
| S | Crossover Slope | dB/Oct | |

WATERFALL CUMULATIVE SPECTRAL DECADY RISE 0.576ms



SUGGESTED APPLICATION

