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2 N52 oversized, high quality neodymium magnet. This "motor" guarantees a perfectly linear response and constant magnetic flux over the entire working range of the tweeter, assuring an extremely linear and neutral response both at low and high volumes. A careful study supported by FEM analysis allowed us to design the metal parts of the magnet to maximize the flow exactly around the voice coil, and make it linear throughout its entire excursion. Ventilation is ensured by a large opening on the bottom, protected by a filter with calibrated holes. This solution also reduces the peak impedance to the resonance frequency, making the tweeter easier to interface with any passive crossovers.

3 Ultra-low carbon alloy steel machined by numerically controlled machining pole plate, only this type of processing ensures perfect flatness so that it can sit perfectly on top of the magnet and not lose any of the precious magnetic flux.

4 Residual resonances are neutralized by the under-dome, dB Cloth® damping material. This extends the frequency response to the lower limits and reduces harmonic distortion.

5 A pure copper ring was added to reduce harmonic distortions.

6 The large 28 mm diameter voice coil is the best compromise between the lightness of the standard 25 mm coil and the great power management of 32 mm coils. This perfect combination of power and lightness is necessary for a tweeter that must reproduce frequencies in a linear and faithful way, even beyond the threshold of audibility. The voice coil uses an aluminum support to better disperse the temperature.

7 Torcon® soft dome, an exclusive Polyphenylene Sulfide (PPS), with a high-performance fibers, offers superb heat resistance, low weight and excellent self-damping, resulting in a resonance-free frequency response over the audible frequency range.

8 CNC brass polished ring to match the main tweeter body with aluminum flange.

9 The front face-plate is manufactured entirely by numerical control (CNC) by 7000 aluminum alloy. This makes the structure very rigid with practically zero tolerances, yielding consistency of performance and maximum linearity of reproduction, free from any vibration and/or resonance. The faceplate can be unscrewed and removed and replaced. There are two solution: round face-plate (mod. 8.028) and cut off type (mod. 8.028S).

10 Light stainless still grill for dome protection.

Speaker Type: Component Tweeter
 Nominal Diameter: 1.1"/28 mm
 Nominal Impedance (Znom): 4 Ohms
 Continuous Power Handling: 110 W
 Peak Power Handling: 220 W
 Rec. Amplifier Power: 40 - 150W (RMS)

PARAMETERS

Voice Coil Resistance (Re): 3.4 Ohms
 Free Air Resonance (Fs): 540 Hz
 Sensitivity: 91.0 dB @ 1W/1m
 94.0 dB @ 2.83V/1m
 Electrical "Q" (Qes): 0.928
 Mechanical "Q" (Qms): 0.744
 Total Speaker "Q" (Qts): 0.413

DESIGN BANDWIDTH

With 48 dB/oct. HP filters: 1.2 KHz - 25 KHz
 With 24 dB/oct. HP filters: 1.6 KHz - 25 KHz
 With 12 dB/oct. HP filters: 2 KHz - 25 KHz

