



**1** Super flexible cables with high silver content to reduce electrical connection losses.

**2** Aluminum thread fixing ring.

**3** TCA System for back air flow control: reduces turbulence, noise, and controls the damping of the dome.

**4** Pole cup CNC machined from a solid piece of ultra-low-carbon steel.

**5** Main magnet in F52H neodymium, the best both for the magnetic force in relation to the mass, and for the high temperatures support (of 120° against the 80° of a "classic" neodymium magnet).

**6** Magnet plate in ultra-low-carbon steel.

**7** Secondary or superior magnet, used to stabilize and regulate the magnetic flux and concentrate it only in front of the voice coil, increasing efficiency, manageable power, distortion and bandwidth.

**8** Pure copper ring helps reducing the inductance of the voice coil, so that it offers minimal resistance in high frequency reproduction. This means better high-frequency response, enabling the speaker to reproduce high-frequency sounds more accurately. Reducing inductance contributes to better handling of rapid transitions of audio signals. This can improve the speaker's ability to more accurately reproduce transient sound pulses.

**9** FCA System: a special structure to control the flow of air moved by the dome, this creates a periodic damping resistance and implies that the release of the energy accumulated in the movement of the dome occurs in a controlled and fast manner, without create persistent oscillations. This contributes to a more precise and faithful response to the audio source and accuracy and the overall quality of the audio experience.

**10** Butterfly.

**11** Super light aluminum voice coil. It uses a high-strength aluminum alloy so as to be able to reduce its thickness and therefore its weight. The winding is also aluminum with the "skin" in pure copper. In this way a perfect combination of resistance and weight of the wire is obtained.

**12** Pure Japanese silk dome resin impregnated with integrated suspension. This catenary profile dome is made in a single piece that also includes the suspension, this greatly reduces the weight allowing the tweeter to reach very high frequencies, and the absence of joints prevents break-up and/or vibrations.

**13** Felt ring to eliminate any parasitic vibration.

**14** Light stainless steel grill for dome protection.

**15** The faceplate haven't only an cosmetic function, but, working as an acoustic lens, its shape dramatically reduces side refractions, which is very unpleasant in a car installation where windows create harmful refractions.

**16** Finishing stainless steel ring.

**GENERAL DATA**

Overall dimension: 49 × 15 mm  
 Nominal power handling (AES)\*: 100 W  
 Transient power\*: 220 W  
 Sensitivity 1W/1m: 90 dB SPL  
 Frequency response: 1400 - 25.000 Hz

\*Nominal and transient power @ High Pass 2000Hz – 12db/Oct

**ELECTRICAL DATA**

Nominal impedance: 4Ω  
 DC Resistance: 3.5Ω  
 Voice coil inductance (Lbm): 2.55 μH

**VC AND MAGNET PARAMETERS**

Voice coil diameter: 28 mm  
 VC former material: 7000 Aluminum Alloy  
 Number of layers: 2  
 Magnet system: Neodymium N52-H

**T&S PARAMETERS**

Mechanical Q factor (Qms): 1.903  
 Electrical Q factor (Qes): 1.217  
 Total Q factor (Qts): 0.742  
 Resonance frequency (Fs): 690 Hz

