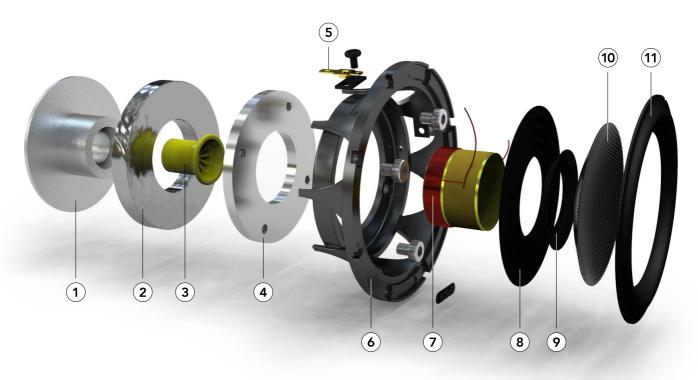


3"/75 MM HIGH-END MIDRANGE



- 1 Magnet pole yoke designed with the help of magnetic flux analysis software. helped to achieve perfect and homogeneous saturation of the magnetic gap for the benefit of a coil stroke and reduction of distortion and increases dynamics.
- **2** Large neodymium magnet. This neodymium high-temperature resistant magnet is one of the powerful motor magnet structure for a this size car audio midrange driver. This is made from a high grade neodymium and allows the size and bulk of the magnetic motor to be greatly reduced.
- **3** TCA to control the flow of air moved by the cone creates aperiodic damping resistance and implies that the release of energy accumulated in the movement of the speaker occurs in a controlled and fast manner, without creating persistent oscillations. This contributes to a more precise and faithful response to the audio source and to the accuracy and overall quality of experiene.
- **4** Pole plate CNC machined from a solid piece of ultra-low-carbon steel.
- **5** Gold-plated soldering terminal help to save space and prevent any loss of the precious power generated by the amplifier.
- **6** Die cast-aluminum and powder-coated basket offers very low resistance to the passage of air, and its shape (verified by FEM analysis) reduces vibration and resonance.
- 7 Wide, lightweight Nomex voice coil with aluminum winding contributes significantly to the wide bandwidth extension.
- **8** Large balanced Conex[™] spider damper device ensures linear excursion in both directions thereby reducing distortion.
- 9 Collar for joint voice coil and cone, this distribute in a large area the pressure on cone for reduce deformation and distortion.
- 10 Cone is made with vacuum and autoclave molded high-modulus carbon, a technology rarely used in loudspeakers because of its cost, but it brings enormous benefits in terms of naturalness of reproduction and high dynamics at transients. This is made in a single piece by eliminating the dust cup, on a component of this small size, this solution offers incredible advantages in homogeneity of dispersion and regularity of frequency response at the high end.
- **11** The NBL rubber edge has a shape designed to ensure very smooth movement at very low excursion, becoming increasingly controlled as the excursion increases and approaches the limit. This, too, helps to make this speaker extremely dynamic and capable of handling large powers.





3"/75 MM HIGH-END MIDRANGE

GENERAL DATA

Overall dimension: 81 × 40 mm Nominal power handling (AES)*: 100 W Transient power*: 220 W Sensitivity 1W/1m: 88.3 dB SPL Frequency response: 130 - 20.000 Hz

*Nominal and transient power @ High Pass 200Hz – 12db/Oct

ELECTRICAL DATA

Nominal impedance: 4Ω DC Resistance: 3.6Ω

Voice coil inductance (Lbm): $24.6 \, \mu H$

VC AND MAGNET PARAMETERS

Voice coil diameter: 25.5 mm
Voice coil height: 5.6 mm
Magnetic gap height (HE): 4 mm
Max linear excursion (Xmax): 2.8 mm
VC former material: Nomex 410™
Number of layers: 2
Magnet system: Neodymium N52-H
Efficiency (¶): 0.422 %
BL product (BxL): 4.841 Na

T&S PARAMETERS

Suspension compliance (Cms): 540 N/m Mechanical Q factor (Qms): 11.364 Electrical Q factor (Qes): 0.355 Total Q factor (Qts): 0.344 Moving mass (Mms): 2.8 g Eq. compliance air load (Vas): 0.7 Lt Resonance frequency (Fs): 127 Hz Effective piston area (Sd): 3.11 cm²

