



**1** Pole cup designed with the help of magnetic flux analysis software. It helped to achieve perfect and homogeneous saturation of the magnetic gap for the benefit of the voice coil stroke always immersed in constant magnetic flux, this reduces distortion and increases dynamics.

**2** The Y35 ferrite magnet motor is optimized with FEA simulation to ensure a perfectly symmetrical magnetic flux in both directions of cone's run. Motor metal parts are CNC machined from solid, refined material for maximum magnetic flux linearity and minimum magnetic loss. This reduces distortion at high power levels.

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

**4** The aluminum basket ensures a drastic reduction of the cone's back reflections and a greater torsional rigidity. High structural and torsional rigidity for perfect parts alignment requires very tight tolerances in the construction and assembling system. This results in better efficiency, more power handling and less distortion.

**5** The 32.4 mm double layer voice coil is wound on an aluminum former for exceptional power handling and compression-free reproduction, even for the most demanding musical passages.

**6** The large Conex™ spider allows a smooth and gentle run at low excursions and gently holds the cone at high excursions, thus increasing its useful range of use.

**7** Non pressed cellulose pulp exponential cone with a vinylester resin coating ensures a perfect balance between rigidity, weight, and self-damping. The cellulose pulp guarantees an extremely natural and linear reproduction in all musical passages with an excellent extension at high frequencies without audible break-up. An aluminum dust cup fixed directly on the voice coil former increases and linearizes the extreme top of the bandwidth.

**8** The exclusive TSW (Twin Symmetrical Wave) rubber surround offers maximum linearity of travel and high reliability in extreme conditions.

Speaker Type: Component Mid-Woofer  
 Nominal Diameter: 6.5"/165 mm  
 Nominal Impedance (Znom): 3 Ohms  
 Continuous Power Handling: 160 W  
 Peak Power Handling: 320 W  
 Rec. Amplifier Power: 60 - 280W (RMS)

**PARAMETERS**

Voice Coil Resistance (Re): 2.2 Ohms  
 Voice Coil Diameter: 32.4 mm  
 Free Air Resonance (Fs): 62.7 Hz  
 Reference Efficiency (no): 0,57 %  
 Sensitivity: 89 dB @ 1W/1m  
                   92 dB @ 2.83V/1m  
 Electrical "Q" (Qes): 0.43  
 Mechanical "Q" (Qms): 4.27  
 Total Speaker "Q" (Qts): 0.39  
 Equivalent Compliance (Vas): 11.1 lt  
 Moving Mass (Mms): 13.5 g  
 Mech. Compliance (Cms): 0.475 mm/N  
 Magnetic Strength (BL): 5.20 N/A  
 Effective Piston Area (Sd): 130 sq. cm  
 One-Way Linear Excursion (Xmax): 4.6 mm

**DESIGN BANDWIDTH**

With 48 dB/oct. HP filters: 70 Hz - 4 KHz  
 With 24 dB/oct. HP filters: 80 Hz - 4 KHz  
 With 12 dB/oct. HP filters: 90 Hz - 4 KHz

