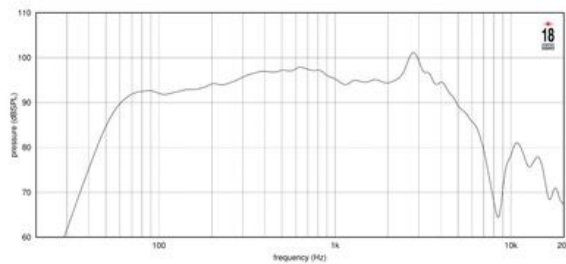
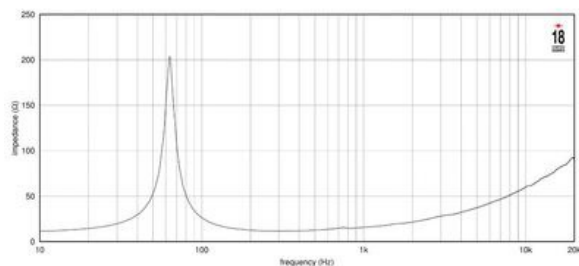




- 96 dB SPL 1W @ 1m average sensitivity
- 500W program power handling
- 65mm (2.4 in) Edgewound Aluminum Voice Coil
- Single Demodulating Ring (SDR) for lower distortion and
- Maximum sound clarity
- Weather protected cone and coated plates
- Ideal for compact two-way and multiway systems

18 Sound's 10W650 ceramic low frequency transducer is a 10-inch woofer that combines excellent linearity with high power handling capabilities (700 W) and reduced power compression. The 65mm (2.5 in) state-of-the-art voice coil assembly incorporates a fine edge-wound aluminum wire together with a strong fiberglass former to get the necessary force factor, mass lightness and high power handling. The voice coil is cooled using airways between the chassis back plate and the magnet face plate, which allow heated air from the voice coil and gap to be channeled away and dissipated by the chassis basket. This technology is another product of 3D CAD resource application by our engineers. The magnetic structure has also been optimized using our in-house FEA CAD resource which has maximized the flux density in the voice coil gap.

A distortion reduction system has been implemented using a demodulating ring for flux modulation cancellation related to voice coil excursion. The cone is treated against extremely aggressive environment conditions and is carried by a double half-roll suspension composed of a material which is more resistant to aging and fatigue than traditional materials, providing the correct damping and excursion control.



ESPECIFICACIÓN

Diámetro nominal	260 mm (in)
Impedancia nominal	16 Ω
Impedancia mínima	5.8 Ω
Manejo de potencia nominal	250 W
Manejo de potencia continua	500 W
Sensibilidad	96.0 dB
Rango de frecuencia	55 - 5700 Hz
Diámetro de la bobina	65 mm (2.5 in)

DISEÑO

Recinto recomendado	25.0 dm ³ (0.88 ft ³)
Sintonía recomendada	70 Hz

PARÁMETROS

Frecuencia de resonancia	64 Hz
Re	10.2 Ω
Qes	0.43
Qms	8.4
Qts	0.41
Vas	27.0 dm ³ (0.95 ft ³)
Sd	350.0 cm ² (54.25 in ²)
η _o	1.5 %
X _{max}	5.7 mm
M _{ms}	39.0 g
Bl	19.2 Txm
Le	1.0 mH
EBP	148 Hz

INFORMACIÓN DE MONTAJE Y ENVÍO

Diámetro total	260 mm (10.24 in)
Diámetro de circunferencia de los tornillos	244 mm (9.61 in)
Diámetro de la perforación en el baffle	230.0 mm (9.06 in)
Profundidad	121 mm (4.76 in)
Espesor del reborde y junta	9 mm (0.35 in)
Peso neto	4.3 kg (9.48 lb)
Peso del envío	5.5 kg (12.13 lb)
Caja de envío	275 x 275 x 170 mm (10.83x10.83x6.69 in)