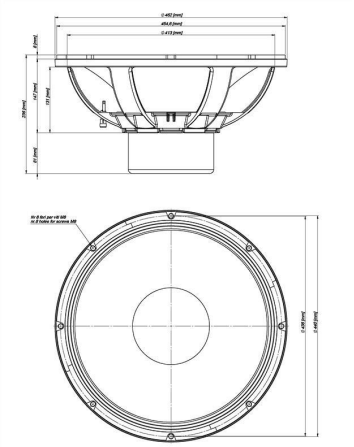
18iD 2Ω

Altavoces LF - 18.0 Inches



- Class D amplifier optimized for maximum power transfer
- Conforms to Powersoft™ iPal® standards
- 95 dB SPL 1W / 1m average sensitivity
- 135mm (5.3") split winding, four layer ISV copper voice coil
- 3600 W program power handling
- Triple Silicon Spider (TSS) for improved excursion control
- Aluminum demodulating ring (SDR) for lower distortion

The 18iD is an 18 inch neodymium ultra high performance subwoofer. The transducer has been optimized for vented and bandpass subwoofer cabinet designs and is recommended for being driven by a Class D or iPal (tm*) amplifier able to deliver 3600 Watt program power without clipping. 18 Sound engineers have obtained the best possible results with today's available materials in terms of clean and undistorted LF reproduction at a ultra high SPL, with the lowest possible power compression figure. The 18iD design features include a large displacement suspension system specifically designed for matching the composite fiber reinforced, straight ribbed cone. Thanks to the Triple Silicon Spider (TSS) technology, the 18iD is able to control the moving mass with high linearity, showing an exceptional stability of mechanical parameter values in the long term. Bl force factor, as well as all other electro-dynamic parameters, are linear within the working range. This, together with the exceptional high excursion behavior - 70mm before damage, ±14mm linear Xmax - makes the 18iD an extremely low distortion, highly dynamic transducer. The 18iD features a state-of-the-art 5,3" inside outside ISV copper voice coil enabling the 18iD to deliver extraordinary transient results. The 18iD has been developed after intense FEA and fluidodynamics simulation and testing,focusing on dissipating the heat generated by the powerful voice coil. Special attention was given to the optimization of air flow into the gap without introducing audible noise. A low density material air diffractor placed into the heatsink acts as a cooling system, increasing the power handling capability and lowering the power compression figure.

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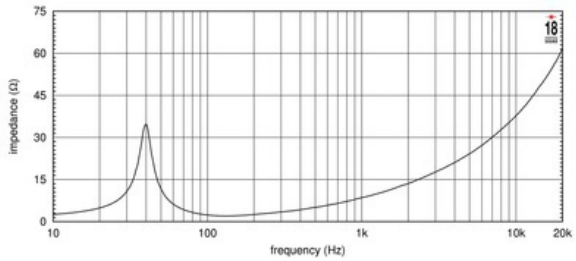

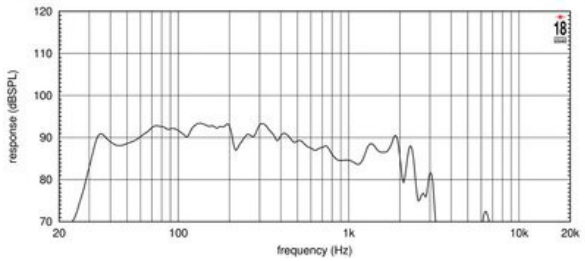

ESPECIFICACIÓN

Diámetro nominal	460 mm (in)
Impedancia nominal	2 Ω
Impedancia minima	2.0 Ω
Manejo de potencia nominal	1800 W
Manejo de potencia continua	3600 W
Sensibilidad	95.0 dB
Rango de frecuencia	30 - 2500 Hz
Diámetro de la bobina	135 mm (5.3 in)
Material de la bobina	copper

DISEÑO

Recinto recomendado	200.0 dm^3 (7.06 ft^3)
Sintonía recomendada	40 Hz

PARÁMETROS

Frecuencia de resonancia	40 Hz
Re	1.5 Ω
Qes	0.27
Qms	5.5
Qts	0.26
Vas	67.0 dm^3 (2.37 ft^3)
Sd	1225.0 cm^2 (189.88 in^2)
Xmax	15.5 mm
Mms	420.0 g
Bl	24.0 Txm
Le	1.22 mH
EBP	148 Hz

INFORMACIÓN DE MONTAJE Y ENVÍO

Diámetro total	462 mm (18.19 in)
Diámetro de circunferencia de los tornillos	440 mm (17.32 in)
Diámetro de la perforación en el baffle	416.0 mm (16.38 in)
Profundidad	236 mm (9.29 in)
Espesor del reborde y junta	26 mm (1.02 in)
Peso neto	12.5 kg (27.56 lb)
Peso del envío	14.0 kg (30.86 lb)
Caja de envío	482 x 482 x 257 mm (18.98x18.98x10.12 in)

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