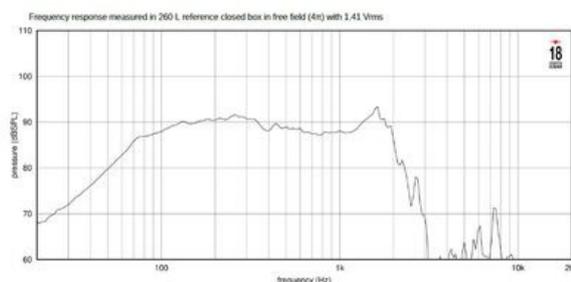
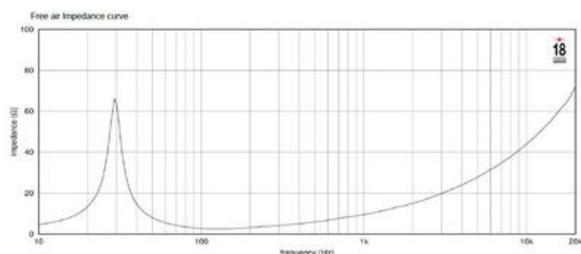


- Class D amplifier optimized for maximum power transfer
- Conforms to Powersoft™ iPal® standards
- 95 dB SPL 1W/ 1m average sensitivity
- 135mm (5.3") split winding, four layer ISV copper voice coil
- 3600 W program power handling
- Double Silicon Spider (DSS) for improved excursion control

Limited distribution - US only

Contact [Thunderball Marketing](#) for info

The 18iDSDS is an 18 inch neodymium ultra high performance subwoofer. The transducer has been optimized for any subwoofer cabinet designs (even the most compact) and is recommended for being driven by a Class D or iPal (tm*) amplifier able to deliver 3600 Watt program power without clipping on 2ohms loads. 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 18iDSDS design features include a large displacement suspension system specifically designed for matching the composite fiber reinforced, straight ribbed cone. Thanks to the Double Silicon Spider (DSS) technology, the 18iDSDS200 is able to control the moving mass with high linearity, showing an exceptional stability of mechanical parameter values in the long term. BI force factor, as well as all other electro-dynamic parameters, are linear within the working range. This, together with the exceptional high excursion behavior, $\pm 18\text{mm}$ linear X_{max} - makes the 18iDSDS200 an extremely low distortion, highly dynamic transducer. The 18iDSDS features a state-of-the-art 5,3" inside outside ISV copper voice coil enabling the 18iD to deliver extraordinary transient results. The 18iDSDS 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.



ESPECIFICACIÓN

Impedancia nominal	2 Ω
Impedancia mínima	1.9 Ω
Manejo de potencia nominal	1800 W
Manejo de potencia continua	3600 W
Sensibilidad	95.0 dB
Rango de frecuencia	29 - 1000 Hz
Diámetro de la bobina	135 mm (5.3 in)
Material de la bobina	aluminum
Profundidad del devanado	45.0 mm (1.77 in)
profundidad magnética	18.0 mm (0.71 in)

DISEÑO

Recinto recomendado	120.0 dm ³ (4.24 ft ³)
Sintonía recomendada	33 Hz

PARÁMETROS

Frecuencia de resonancia	29 Hz
Re	1.3 Ω
Qes	0.18
Qms	7.0
Qts	0.17
Vas	136.0 dm ³ (4.8 ft ³)
Sd	1225.0 cm ² (189.88 in ²)
η _o	2.0 %
X _{max}	18.0 mm
Excursión máxima	15.0 mm
M _{ms}	444.0 g
Bl	24.4 Txm
Le	0.93 mH
EBP	161 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	417.0 mm (16.42 in)
Profundidad	238 mm (9.37 in)
Espesor del reborde y junta	24 mm (0.94 in)
Peso neto	16.0 kg (35.27 lb)
Peso del envío	16.6 kg (36.6 lb)