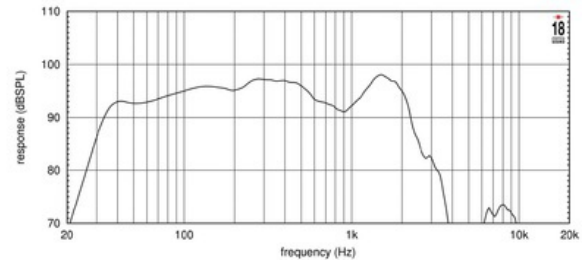
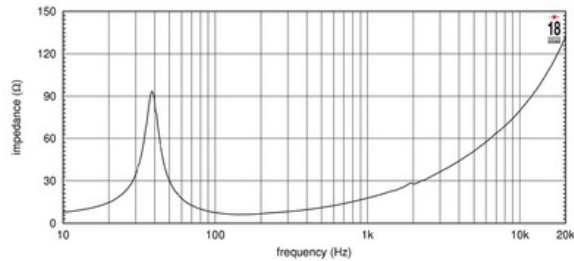


- 96 dB SPL 1W / 1m average sensitivity
- 135 mm (5.3 in) split winding four layers ISV aluminum voice coil
- 3600 W program power handling
- Carbon fiber reinforced cellulose cone
- Double Silicon Spider (DSS) for improved excursion control
- Aluminum demodulating ring (SDR) for lower distortion
- High force neodymium magnet assembly
- Weather protected cone and plates for outdoor usage
- Suitable for reflex, bandpass or horn loaded high SPL subwoofer systems

The 18NLW9601 is an extended low frequency 18 inch neodymium high performance transducer. It is the evolution of the industry standard 18NLW9600. The loudspeaker has been designed for use as a subwoofer component, in either a reflex, bandpass or horn loaded high SPL demanding applications. For optimum results recommended amplifier should be able to deliver 3600 Watt program power. At the heart of the transducer stands a double silicon spider based on DSS technology let the 18NLW9601 being able to control the moving mass with high linearity, showing an exceptional stability of mechanical parameter values in the long term. The state-of-the-art 5,3" diameter ISV copper clad aluminum wire CCAW voice coil shows a inside-outside split winding, four layers design, enabling the 18NLW9601 to handle up to 3600W program power. 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,  $\pm 14$ mm linear  $X_{max}$  - makes the 18NLW9601 an extremely low distortion, highly dynamic transducer. The already low distortion and sound quality have been further improved by the aluminum demodulating ring (SDR technology), that flatten impedance and phase versus frequency. The 18NLW9601 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 foam diffractor placed into the vent hole acts as a cooling system, increasing the power handling capability and lowering the power compression figure. The carbon fiber reinforced, straight ribbed cone shows a proprietary resin treatment for extra pulp strength and water repellent properties. A special coating applied to both the top and back plates makes the transducer far more resistant to the corrosive effects of salts and oxidation.



### ESPECIFICACIÓN

Diámetro nominal	462 mm ( in)
Impedancia nominal	8 Ω
Impedancia mínima	6.1 Ω
Manejo de potencia nominal	1800 W
Manejo de potencia continua	3600 W
Sensibilidad	96.0 dB
Rango de frecuencia	30 - 2300 Hz
Diámetro de la bobina	135 mm (5.3 in)
Material de la bobina	aluminum

### DISEÑO

Recinto recomendado	200.0 dm <sup>3</sup> (7.06 ft <sup>3</sup> )
Sintonía recomendada	40 Hz

### PARÁMETROS

Frecuencia de resonancia	39 Hz
Re	4.7 Ω
Qes	0.3
Qms	5.7
Qts	0.28
Vas	120.0 dm <sup>3</sup> (4.24 ft <sup>3</sup> )
Sd	1130.0 cm <sup>2</sup> (175.15 in <sup>2</sup> )
Xmax	14.0 mm
Mms	255.0 g
Bl	31.0 Txm
Le	2.19 mH
EBP	130 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 ( in)
Profundidad	236 mm (9.29 in)
Espesor del reborde y junta	26 mm (1.02 in)
Peso neto	12.8 kg (28.22 lb)
Peso del envío	14.3 kg (31.53 lb)
Caja de envío	482x482x257 mm (18.98x18.98x10.12 in)