

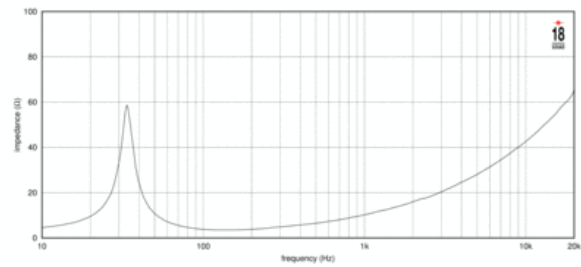
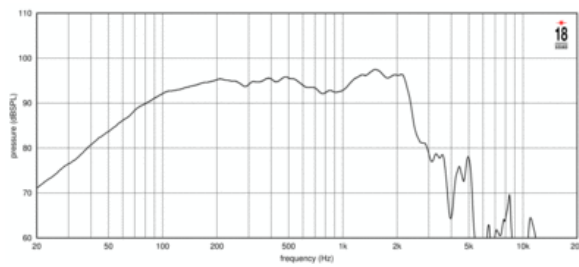
- 100mm (4in) Interleaved Sandwich Voice coil (ISV)
- Improved heat dissipation
- Improved suspension system
- Weather protected cone and plates
- Ideal for horn loaded and high spl subwoofer designs

The 18LW2420 is an 18 inch extended low frequency loudspeaker designed for high SPL subwoofer applications in either a reflex, bandpass or horn loaded configuration. Compared to our industry standard 18LW2400, the 18LW2420 provides higher maximum SPL, increased program power handling and lower power compression. For optimum results we recommend amplifiers able to deliver 2600 Watt program power without clipping. Transducer design features include a large displacement suspension system which, in conjunction with a fiberglass reinforced, straight ribbed cone, allows an ultra-linear piston action and provides full mechanical control across the entire working range. The 100 mm (4 in) inside-outside copper voice coil based on Interleaved Sandwich Voice coil (ISV) technology provides high levels of thermal stability and durability. In order to further increase power handling and reduce power compression figure, 18LW2420 uses the same voice coil ventilation technology developed for our flagship 9000 neodymium transducer series. A special low density material air diffactor has been placed into the backplate acting as a cooling system, increasing power handling capability and lowering the power compression figure. The low distortion and unmatched sound quality of the 18LW2420 has been significantly improved by Single Demodulating Ring (SDR) embedded in the pole piece of the magnetic structure. These have been designed to reduce the intermodulation and harmonic distortion while improving the transient response. 10% reduction in weight have been obtained optimizing the magnetic structure through advanced FEA CAD simulation tools. 18LW2420 is able to perform properly under inclement weather conditions: the exclusive cone treatment improves pulp strength and gives water repellent properties to both sides of the cone. In addition, the special treatment applied to top and back plates of the magnetic structure is far more resistant to the corrosive effects of salts and oxidization.



# 18LW2420 4Ω

Altavoces LF - 18.0 Inches



## ESPECIFICACIÓN

Impedancia nominal	4 Ω
Impedancia mínima	3.5 Ω
Manejo de potencia nominal	1300 W
Manejo de potencia continua	2600 W
Sensibilidad	98.0 dB
Rango de frecuencia	30 - 2000 Hz
Diámetro de la bobina	100 mm (4.0 in)

## DISEÑO

Recinto recomendado	220.0 dm <sup>3</sup> (7.77 ft <sup>3</sup> )
Sintonía recomendada	37 Hz

## PARÁMETROS

Frecuencia de resonancia	34 Hz
Re	2.8 Ω
Qes	0.32
Qms	6.9
Qts	0.31
Vas	208.0 dm <sup>3</sup> (7.35 ft <sup>3</sup> )
Sd	1225.0 cm <sup>2</sup> (189.88 in <sup>2</sup> )
η <sub>o</sub>	2.47 %
X <sub>max</sub>	10.0 mm
M <sub>ms</sub>	221.0 g
Bl	20.2 Txm
Le	0.87 mH
EBP	106 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	422.0 mm (16.61 in)
Profundidad	215 mm (8.46 in)
Espesor del reborde y junta	24 mm (0.94 in)
Peso neto	12.4 kg (27.34 lb)
Peso del envío	13.9 kg (30.64 lb)
Caja de envío	482 x 482 x 257 mm (18.98x18.98x10.12 in)