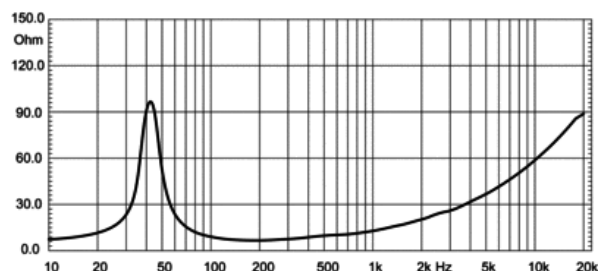
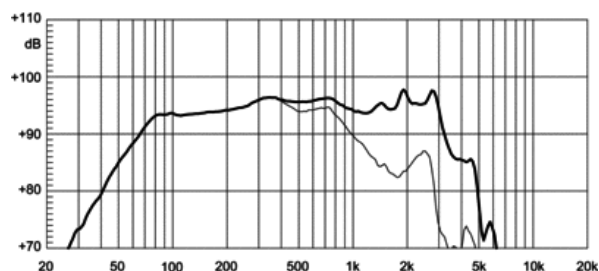


- 96 dB SPL 1W / 1m average sensitivity
- 75 mm (3 in) edgewound copper voice coil
- 500 WAES power handling
- Double Silicon Spider (DSS) for improved excursion control and linearity
- Single Demodulating Ring (SDR) for lower distortion
- High excursion damped rubber roll surround
- Suitable for outdoor applications
- Ideal for compact subwoofer use

The 15NW530 low frequency neodymium transducer has been specifically developed for high power, low distortion, compact subwoofer applications. The transducer finds its main application on compact vented subwoofers as small as 75 lit. properly tuned, but it is suitable also in bandpass or horn loaded applications. The neodymium magnet assembly assures high flux concentration, low power compression and excellent heat exchange, since the external magnet configuration is considerably more efficient than traditional under-pole magnet topology. This results in high levels of force factor and power handling with an optimum power to weight ratio. The transducer incorporates Eighteen Sound exclusive DSS technology (Double Silicon Spider) in combination with a single roll highly damped rubber surround. The already low distortion and sound quality are further improved by properly positioned Single Demodulating Ring (SDR technology) that flatten impedance and phase with a constant power transfer. The 75mm edge-wound state-of-the-art voice coil assembly is wound on a strong fibreglas former to improve force transmission and power handling. The deep profile curvilinear cone, created from a special high strength wood pulp, has been designed to achieve the best possible linearity within its frequency range. The in-house developed cone treatment is a humidity repellent and significantly dampens bell mode resonances. A special coating applied to both the top and back plates makes the 15NW530 far more resistant to the corrosive effects of salts and oxidization.



SPECIFICATIONS

Nominal Diameter	380 mm (in)
Nominal Impedance	8 Ω
Minimum Impedance	6.3 Ω
Nominal Power Handling ¹	500 W
Continuous Power Handling ²	800 W
Sensitivity ³	96.0 dB
Frequency Range	47 - 3500 Hz
Voice Coil Diameter	75 mm (3.0 in)
Winding Material	copper

DESIGN

Surround Shape	Single roll - Rubber
Cone Shape	Curvilinear
Magnet Material	Neo
Woofer Cone Treatment	Weather protected
Recommended Enclosure	100.0 dm ³ (3.53 ft ³)
Recommended Tuning	43 Hz

PARAMETERS⁴

Resonance Frequency	38 Hz
Re	5.3 Ω
Qes	0.35
Qms	5.81
Qts	0.33
Vas	154.0 dm ³ (5.44 ft ³)
Sd	855.0 cm ² (132.53 in ²)
Xmax	7.5 mm
Mms	135.0 g
Bl	22.0 Txm
Le	1.4 mH
EBP	108 Hz

MOUNTING AND SHIPPING INFO

Overall Diameter	387 mm (15.24 in)
Bolt Circle Diameter	370 mm (14.57 in)
Baffle Cutout Diameter	353.0 mm (13.9 in)
Depth	169 mm (6.65 in)
Flange and Gasket Thickness	11 mm (0.43 in)
Net Weight	4.4 kg (9.7 lb)
Shipping Weight	5.5 kg (12.13 lb)
Shipping Box	405 x 405 x 214 mm (15.94x15.94x8.43 in)

1. 2 hours test made with continuous pink noise signal within the range Fs-10Fs. Power calculated on rated minimum impedance. Loudspeaker in free air.
2. Power on Continuous Program is defined as 3 dB greater than the Nominal rating.
3. Applied RMS Voltage is set to 2.83 V for 8 ohms Nominal Impedance.
4. Thiele-Small parameters are measured after a high level 20 Hz sine wave preconditioning test.