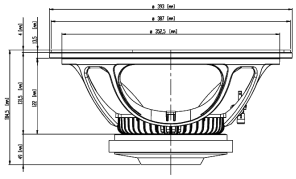
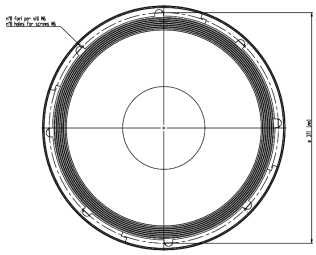
15W930 8Ω

LF drivers - 15.0 Inches





- 98 dB SPL 1W / 1m average sensitivity
- 75 mm (3 in) edgewound copper voice coil
- 800 W program power handling
- Aluminum demodulating ring (SDR)
- Long excursion, linear travel suspension design
- Humidity resistant cone and treated plates for outdoor usage
- Ideal for high loading compact subwoofer applications and two way systems

The 15W930 low frequency transducer meets the specific market demand for a ceramic version of our industry standard 15ND930 extended low frequency transducer with 75 mm Ø copper edge wound voice coil. Thanks to its versatility, the 15W930 can be used in 2-way compact reflex enclosures with a 1.4" compression driver, in multiway systems and in high loading sub woofers as small as 70 lt (compact reflex, bandpass and horn loaded configurations). The deep profile curvilinear cone, made with high strength wood pulp, has been designed to achieve the best possible linearity within its frequency range. The cone surround, made from a linen material, is highly resistant to aging and fatigue. The in-house developed cone treatment is humidity repellent and significantly dampens bell mode resonances. The 75mm (3in) copper edge-wound voice coil assembly is wound on a strong fiberglas former to improve force transmission and power handling. The already low distortion and high sound quality are further improved by the aluminum demodulating ring (SDR) used to reproduce instantaneous peak on mid frequencies, reducing intermodulation distortion. The magnetic structure has been optimized using our FEA CAD software that has maximized the flux density in the voice coil gap. Excellent heat dissipation has also been achieved by incorporating air channels between the basket and the magnetic top plate. Due to the increase in use of audio systems at outdoor events, the ability of the 15W930 to perform in adverse weather conditions or in areas of high humidity is a great advantage. This has been achieved using exclusive treatments which enable the cone and the magnetic plate to resist corrosion and render the cone water repellent at the same time.

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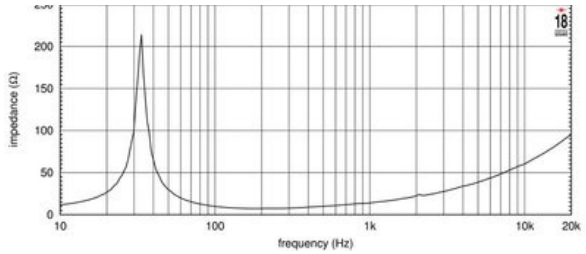

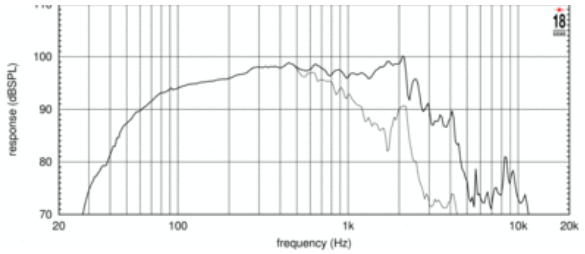

SPECIFICATIONS

Nominal Diameter	380 mm (in)
Nominal Impedance	8 Ω
Minimum Impedance	7.2 Ω
Nominal Power Handling[1]	500 W
Continuous Power Handling[2]	800 W
Sensitivity[3]	98.0 dB
Frequency Range	50 - 3600 Hz
Voice Coil Diameter	75 mm (3.0 in)
Winding Material	copper

DESIGN

Surround Shape	M-roll
Cone Shape	Curvilinear
Magnet Material	Ferrite
Woofer Cone Treatment	Weather protected
Recommended Enclosure	110.0 dm^3 (3.88 ft^3)
Recommended Tuning	36 Hz

PARAMETERS[4]

Resonance Frequency	33 Hz
Re	5.5 Ω
Qes	0.23
Qms	8.78
Qts	0.22
Vas	240.0 dm^3 (8.48 ft^3)
Sd	850.0 cm^2 (131.75 in^2)
Xmax	7.5 mm
Mms	97.0 g
Bl	22.1 Txm
Le	1.47 mH
EBP	143 Hz

MOUNTING AND SHIPPING INFO

Overall Diameter	393 mm (15.47 in)
Bolt Circle Diameter	371 mm (14.61 in)
Baffle Cutout Diameter	360.0 mm (14.17 in)
Depth	185 mm (7.28 in)
Flange and Gasket Thickness	14 mm (0.55 in)
Net Weight	8.0 kg (17.64 lb)
Shipping Weight	9.1 kg (20.06 lb)
Shipping Box	405 x 405 x 252 mm (15.94x15.94x9.92 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.

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