



Description

The LN19S400 is a 19-inch extended low-frequency transducer designed with high excursion piston capabilities, perfect for vented enclosures where power and low-frequency extension are priorities. One of the key highlights of the transducer is its ultralight CCAW (copper-clad aluminum wire) voice coil, which is configured in a 4.0-inch, 4-layer inside-outside voice coil with fiberglass former material. The ultra-long excursion moving mass (65mm/2.5" safe peak-to-peak) with high power and fast acceleration capabilities. Employing a cone assembly loaded with fibers and featuring a generous triple-roll surround, the LN19S400 is engineered to decrease flux modulations and enhance transient response. The Hyper-Vented dual-forced air system enhances voice coil ventilation, effectively minimizing power compression.

Features

- > 4.0-inch Inside/Outside CCAW (copper-clad aluminum wire) voice coil
- > 3000 Watt continuous program power handling
- > 98.5 dB Sensitivity
- > 25 Hz 1 kHz Frequency range
- > Hypervented magnetic structure for minimum power compression
- > Triple roll surround and exponential cone geometry
- > Single aluminum demodulation ring

Part Number

11100167 LN19S400

8ohm



TECHNICAL SPECIFICATIONS

General specifications

Thiele - small parameters

Nominal Diameter 19 inch / 483 mm Rated Impedance 8 ohm

Program Power (watt)

Power handling capacity

Sensitivity

Sensitivity

Frequency range

Effective piston diameter

Max. Excursion Before Damage

Solim

3000 W

98.5 dB

25 - 1000 Hz

410 mm / 16.14 inch

59 mm / 2.32 inch

Minimum Impedance (ohm) 6.2 ohm

Voice Coil Diameter4.0 inch / 102 mmVoice Coil Winding MaterialAluminumVoice Coil Length42 mm / 1.65 inch

Number of layers 4

Kind of layers inside/outside
Top Plate Thickness 16 mm / 0.63 inch

Cone DesignCurvedSurround MaterialPolycottonSurround DesignTriple rollMagnetsNeodymium

Hypervented magnetic structure Yes

Dual-force air ventilation Yes

Demodulation Rings material Aluminum

Number of Demodulation Rings

Spider Triple layer sandwich spider

Demodulation Ring Yes
Resonance frequency (Fs) 32 Hz
DC resistance (Re) (ohm) 4.70 ohm
Mechanical factor 4.00 Qms

Electrical factor0.27 QesTotal factor0.26 QtsBI factor (BI) (T x m)32.00 T x mEffective moving mass (Mms)296.0 gEquivalent Cas air loaded (Vas)204.0 litersEffective piston area (Sd)0.132 m2Max. linear excursion (Xmax)17 mm

Voice coil inductance @ 1kHz (Le1k) 3.40 mH Half-space efficency (Eff) 2.37%

Mounting information Overall diameter 480 mm / 18.9 inches

Bolt circle diameter 460-462 mm / 18.11-18.19 inch

Bolt hole diameter 7 mm / 0.28 inch
Front mount baffle cut-out 446 mm / 17.56 inch
Rear mount baffle cut-out 446 mm / 17.56 inch
Volume occupied by the driver 10 liters / 0.39 ft3

Standard compliance Safety agency CE compliant

SizeHeight232 mm / 9.13 inchesDiameter480 mm / 18.9 inchesCut out diameter446 mm / 17.56 inches

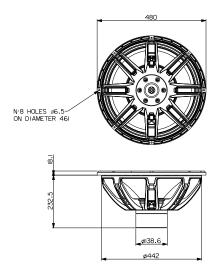
 Cut out diameter
 446 mm / 17.56 inc

 Weight
 10.2 kg / 22.49 lbs

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Line Art 2D



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