

# LN19S400

## WOOFER

### 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

## TECHNICAL SPECIFICATIONS

<b>General specifications</b>	Nominal Diameter:	19 inch / 483 mm
	Rated Impedance:	8 ohm
	Program Power (watt):	3000 W
	Power handling capacity:	1500 W
	Sensitivity:	98.5 dB
	Frequency range:	25 - 1000 Hz
	Effective piston diameter:	410 mm / 16.14 inch
	Max. Excursion Before Damage:	65 mm / 2.56 inch
	Minimum Impedance (ohm):	6.6 ohm
	Voice Coil Diameter:	4.0 inch / 102 mm
	Voice Coil Length:	42 mm / 1.65 inch
	Number of layers:	4
	Kind of layers:	inside/outside
	Top Plate Thickness:	16 mm / 0.63 inch
	Cone Design:	Curved
	Surround Design:	Triple roll
	Hypervented magnetic structure:	Yes
	Dual-force air ventilation:	Yes
Number of Demodulation Rings:	1	
Demodulation Ring:	Yes	
<b>Thiele - small parameters</b>	Resonance frequency (Fs):	32 Hz
	DC resistance (Re) (ohm):	4.70 ohm
	Mechanical factor:	4.00 Qms
	Electrical factor:	0.22 Qes
	Total factor:	0.21 Qts
	Bl factor (Bl) (T x m):	32.00 T x m
	Effective moving mass (Mms):	296.0 g
	Equivalent Cas air loaded (Vas):	204.0 liters
	Effective piston area (Sd):	0.132 m <sup>2</sup>
	Max. linear excursion (Xmax):	18 mm
	Voice coil inductance @ 1kHz (Le1k):	3.40 mH
Half-space efficiency (Eff):	2.37%	
<b>Mounting information</b>	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 ft <sup>3</sup>
<b>Standard compliance</b>	Safety agency:	CE compliant



<b>Size</b>	Height:	232 mm / 9.13 inches
	Diameter:	480 mm / 18.9 inches
	Cut out diameter:	446 mm / 17.56 inches
	Weight:	10.2 kg / 22.49 lbs

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<b>Shipping information</b>	Package Height:	290 mm / 11.42 inches
	Package Width:	505 mm / 19.88 inches
	Package Depth:	515 mm / 20.28 inches
	Package Weight:	10.9 kg / 24.03 lbs

## **PART NUMBER**

- **11100167**  
LN19S400  
8ohm



