

LN19S450 WOOFER

DESCRIPTION

The LN19S450 is a 19-inch extended lowfrequency transducer designed with high excursion piston capabilities, perfect for vented enclosures where power and lowfrequency 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 4.5-inch, 4layer inside-outside voice coil with fiberglass former material. The ultra-long excursion moving mass (67mm/2.6" 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 LN19S450 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

- 4.5-inch Inside/Outside CCAW (copper-clad aluminum wire) voice coil
- 3400 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

General specifications	Nominal Diameter:	19 inch / 483 mm
	Rated Impedance:	8 ohm
	Program Power (watt):	3400 W
	Power handling capacity:	1700 W
	Sensitivity:	98.5 dB
	Frequency range:	25 - 1000 Hz
	Effective piston diameter:	410 mm / 16.14 inch
	Max. Excursion Before Damage:	67 mm / 2.64 inch
	Minimum Impedance (ohm):	6.7 ohm
	Voice Coil Diameter:	4.5 inch / 114 mm
	Voice Coil Length:	45 mm / 1.77 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
Thiele - small parameters	Resonance frequency (Fs):	29 Hz
	DC resistance (Re) (ohm):	4.70 ohm
	Mechanical factor:	4.00 Qms
	Electrical factor:	0.27 Qes
	Total factor:	0.25 Qts
	BI factor (BI) (T x m):	38.00 T x m
	Effective moving mass (Mms):	355.0 g
	Equivalent Cas air loaded (Vas):	145.0 liters
	Effective piston area (Sd):	0.132 m2
	Max. linear excursion (Xmax):	18 mm
	Voice coil inductance @ 1kHz (Le1k):	4.40 mH
	Half-space efficency (Eff):	2.20%
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:	11 liters / 0.43 ft3
Standard compliance	Safety agency:	CE compliant

DATASHEET

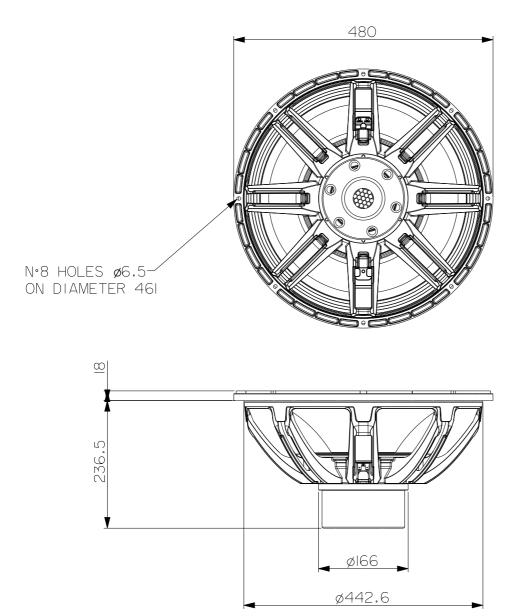


Size	Height: Diameter:	253.5 mm / 9.98 inches 480 mm / 18.9 inches
	Cut out diameter:	446 mm / 17.56 inches
	Weight:	12.7 kg / 28 lbs
Shipping information	Package Height:	290 mm / 11.42 inches
	Package Width:	505 mm / 19.88 inches
	Package Depth:	515 mm / 20.28 inches
	Package Weight:	13.4 kg / 29.54 lbs

PART NUMBER

11100182
LN19S450
80hm





DATASHEET

