

LN19S450

WOOFER

DESCRIPTION

The LN19S450 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 4.5-inch, 4-layer 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
	Bl factor (Bl) (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 m ²
	Max. linear excursion (Xmax)	18 mm
	Voice coil inductance @ 1kHz (Le1k)	4.40 mH
Half-space efficiency (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 ft ³
Standard compliance	Safety agency	CE compliant



Size	Height	253.5 mm / 9.98 inches
	Diameter	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
8ohm



