

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:	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

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
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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



