

LN16S400

WOOFER

DESCRIPTION

The LN16S400 is a 16-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 LN16S400 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
- 97 dB Sensitivity
- 28 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:	16 inch / 406 mm
	Rated Impedance:	8 ohm
	Program Power (watt):	3000 W
	Power handling capacity:	1500 W
	Sensitivity:	97.0 dB
	Frequency range:	28 - 1000 Hz
	Effective piston diameter:	355 mm / 13.98 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	
Thiele - small parameters	Resonance frequency (Fs):	35 Hz
	DC resistance (Re) (ohm):	4.70 ohm
	Mechanical factor:	3.80 Qms
	Electrical factor:	0.24 Qes
	Total factor:	0.23 Qts
	Bl factor (Bl) (T x m):	32.00 T x m
	Effective moving mass (Mms):	270.0 g
	Equivalent Cas air loaded (Vas):	127.0 liters
	Effective piston area (Sd):	0.099 m ²
	Max. linear excursion (Xmax):	18 mm
	Voice coil inductance @ 1kHz (Le1k):	3.00 mH
	Half-space efficiency (Eff):	1.80%
Mounting information	Overall diameter:	415 mm / 16.34 inches
	Bolt circle diameter:	396-398 mm / 15.59-15.67 inch
	Bolt hole diameter:	6 mm / 0.24 inch
	Front mount baffle cut-out:	380 mm / 14.96 inch
	Rear mount baffle cut-out:	380 mm / 14.96 inch
	Volume occupied by the driver:	9 liters / 0.35 ft ³
Standard compliance	Safety agency:	CE compliant



Size	Height:	190 mm / 7.48 inches
	Diameter:	415 mm / 16.34 inches
	Cut out diameter:	380 mm / 14.96 inches
	Weight:	9.7 kg / 21.38 lbs

Shipping information	Package Height:	220 mm / 8.66 inches
	Package Width:	460 mm / 18.11 inches
	Package Depth:	470 mm / 18.5 inches
	Package Weight:	9.9 kg / 21.83 lbs

PART NUMBER

- **11100184**
LN16S400
8ohm



