

# LF18N451

## WOOFER

### DESCRIPTION

The LF18N451 is a very high power handling and efficiency transducer specially designed to provide powerful and accurate sub-bass frequencies with low distortion and low power compression. Ultra fast time response. The LF18N451 uses a fibre loaded cone assembly along a large triple roll surround, this combination provides remarkable strength and control. Double silicon spider system ensures excellent control during large excursions.

A fully optimized T-pole design generate the minimum amount of flux modulation. The Dual-forced air venting system provides a very efficient voice coil ventilation to minimize the power compression



### FEATURES

- 4,5 - inch Inside/Outside copper voice coil
- 3000 Watt continuous program power handling
- 97.5 dB Sensitivity
- 30 Hz - 1 kHz Frequency range
- Dual-forced air ventilation for minimum power compression
- Dual spider designed with silicon based damping control
- BL of 30.2 Txm to provide a faster and accurate low frequency

## TECHNICAL SPECIFICATIONS

### General specifications

Nominal Diameter:	18 inch / 457 mm
Rated Impedance:	8 ohm
Program Power (watt):	3000 W
Power handling capacity:	1500 W
Sensitivity:	97.5 dB
Frequency range:	30 - 1000 Hz
Effective piston diameter:	395 mm / 15.55 inch
Max. Excursion Before Damage:	60 mm / 2.36 inch
Minimum Impedance (ohm):	6.3 ohm
Voice Coil Diameter:	4.5 inch / 114 mm
Voice Coil Winding Material:	Copper
Voice Coil Length:	26 mm / 1.02 inch
Number of layers:	2
Kind of layers:	inside/outside
Top Plate Thickness:	15 mm / 0.59 inch
Cone Design:	Curved
Surround Material:	Polycotton
Surround Design:	Triple roll
Magnets:	Neodymium
Dual-force air ventilation:	Yes
Spider:	Dual with silicon based damping control

### Thiele - small parameters

Resonance frequency (Fs):	31 Hz
DC resistance (Re) (ohm):	5.00 ohm
Mechanical factor:	6.00 Qms
Electrical factor:	0.25 Qes
Total factor:	0.24 Qts
Bl factor (Bl) (T x m):	30.20 T x m
Effective moving mass (Mms):	235.0 g
Equivalent Cas air loaded (Vas):	245.0 liters
Effettive piston area (Sd):	0.120 m <sup>2</sup>
Max. linear excursion (Xmax):	9.0 mm
Voice coil inductance @ 1kHz (Le1k):	2.60 mH
Half-space efficiency (Eff):	2.54%

### Mounting informations

Overall diameter:	465 mm / 18.31 inches
Bolt circle diameter:	442-447 mm / 17.4-17.6 inch
Bolt hole diameter:	7 mm / 0.28 inch
Front mount baffle cut-out:	424 mm / 16.69 inch
Rear mount baffle cut-out:	425 mm / 16.73 inch
Volume occupied by the driver:	5.5 liters / 0.22 ft <sup>3</sup>

### Standard compliance

CE marking:	Yes
-------------	-----



<b>Size</b>	Height:	223 mm / 8.78 inches
	Diameter:	465 mm / 18.31 inches
	Weight:	10.5 kg / 23.15 lbs

---

<b>Shipping informations</b>	Package Height:	240 mm / 9.45 inches
	Package Width:	510 mm / 20.08 inches
	Package Depth:	480 mm / 18.9 inches
	Package Weight:	12.5 kg / 27.56 lbs

## **PART NUMBER**

- **11100046**  
LF18N451  
8ohm



