



# 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

## Part Number

11100046 LF18N451 8ohm



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		<b>TECHNICAL SPECIFICATIONS</b>	
<b>General specifications</b>	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	03	
<b>Thiele - small parameters</b>	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	
	Effective piston area (Sd)	0.120 m <sup>2</sup>	
	Max. linear excursion (Xmax)	9 mm	
	Voice coil inductance @ 1kHz (Le1k)	2.60 mH	
	Half-space efficiency (Eff)	2.54%	
<b>Mounting information</b>	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>		
<b>Standard compliance</b>	Safety agency	CE compliant	
	<b>Size</b>		
	Height	223 mm / 8.78 inches	
	Diameter	465 mm / 18.31 inches	
	Weight	10.5 kg / 23.15 lbs	



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Line Art 2D

