LF18N451

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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 sysetm ensures excellent control during large excursions. A fully optimazed 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

Products are continually improved. All specifications are therefore subject to change without notice.

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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
	Effective piston area (Sd)	0.120 m2
	Max. linear excursion (Xmax)	9 mm
	Voice coil inductance @ 1kHz (Le1k)	2.60 mH
	Half-space efficency (Eff)	2.54%
Mounting information	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 ft3
Standard compliance	Safety agency	CE compliant

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Size / Weight	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

