LF18X451

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Description

Incredibly linear frequency response characteristics, the highest power handling of any comparable 18-inch transducer, the lowest power compression.
The LF18X451 features a fibre loaded cone assembly along with a high excursion triple roll, constant geometry surround: this combination provides remarkable strength and a peak to peak maximum excursion of 54 mm. The new dual forced hyper-venting system guarantee a very efficient voice coil ventilation for minimum power compression and incredible power handling. A double silicon spider system ensures excellent control during large excursions. A fully optimised T-pole design generate the minimum amount of flux modulation.

Features

- 4,5 - inch fiberglas Inside/Outside copper voice coil
- 3600 Watt continuous program power handling
- 97 dB Sensitivity
- 30 Hz - 1 kHz Frequency range
- Dual Forced Hyperventing System
- Dual spider designed with silicon based damping control
- BL of 30.5 Txm to provide a faster and accurate low frequency

Part Number

11100091	LF18X451	8ohm

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TECHNICAL SPECIFICATIONS

General specifications	Nominal Diameter	18 inch / 457 mm
	Rated Impedance	8 ohm
	Program Power (watt)	3600 W
	Power handling capacity	1800 W
	Sensitivity	97.0 dB
	Frequency range	30 - 1000 Hz
	Effective piston diameter	395 mm / 15.55 inch
	Max. Excursion Before Damage	54 mm / 2.13 inch
	Minimum Impedance (ohm)	6.8 ohm
	Voice Coil Diameter	4.5 inch / 114 mm
	Voice Coil Winding Material	Copper
	Voice Coil Length	34 mm / 1.34 inch
	Number of layers	2
	Kind of layers	inside/outside
	Top Plate Thickness	15 mm / 0.59 inch
	Cone Design	Straight
	Surround Material	Polycotton
	Surround Design	Triple roll
	Magnets	Ceramic
	Dual-force air ventilation	Yes
	Spider	Dual with silicon based damping control
Thiele - small parameters	Resonance frequency (Fs)	30 Hz
	DC resistance (Re) (ohm)	5.40 ohm
	Mechanical factor	6.70 Qms
	Electrical factor	0.29 Qes
	Total factor	0.28 Qts
	Bl factor (Bl) (T x m)	30.50 T x m
	Effective moving mass (Mms)	260.0 g
	Equivalent Cas air loaded (Vas)	220.0 liters
	Effective piston area (Sd)	0.120 m2
	Max. linear excursion (Xmax)	14 mm
	Voice coil inductance @ 1kHz (Le1k)	1.38 mH
	Half-space efficency (Eff)	1.90%
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	424 mm / 16.69 inch
	Volume occupied by the driver	6.5 liters / 0.26 ft3
Standard compliance	Safety agency	CE compliant

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Size / Weight	Height	212 mm / 8.35 inches
	Diameter	465 mm / 18.31 inches
	Weight	15.2 kg / 33.51 lbs

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Line Art 2D



