



LF21X451

WOOFER



Description

The LF21X451 low frequency transducer is the result of many years of R&D developments with the goal of creating new levels of professional audio performance standards. This products features advancements and improvements in all the key areas of transducer technology.

Incredibly linear frequency response characteristics, the highest power handling of any comparable transducer, the lowest power compression. The LF21X451 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.

Features

- › 4,5 - inch fiberglass Inside/Outside copper voice coil
- › 4000 Watt continuous program power handling
- › 97 dB Sensitivity
- › 28 Hz - 1 kHz Frequency range
- › Dual-forced air ventilation for minimum power compression
- › Dual spider designed with silicon based damping control
- › BL of 30.5 Txm to provide a faster and accurate low frequency

Part Number

11100092 LF21X451

8ohm



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TECHNICAL SPECIFICATIONS

General specifications

Nominal Diameter	21 inch / 533 mm
Rated Impedance	8 ohm
Program Power (watt)	4000 W
Power handling capacity	2000 W
Sensitivity	97.0 dB
Frequency range	28 - 1000 Hz
Effective piston diameter	470 mm / 18.5 inch
Max. Excursion Before Damage	54 mm / 2.13 inch
Minimum Impedance (ohm)	6.7 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	Curved
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)	28 Hz
DC resistance (Re) (ohm)	5.40 ohm
Mechanical factor	6.90 Qms
Electrical factor	0.39 Qes
Total factor	0.37 Qts
Bl factor (Bl) (T x m)	30.50 T x m
Effective moving mass (Mms)	355.0 g
Equivalent Cas air loaded (Vas)	385.0 liters
Effective piston area (Sd)	0.170 m ²
Max. linear excursion (Xmax)	14 mm
Voice coil inductance @ 1kHz (Le1k)	2.90 mH
Half-space efficiency (Eff)	2.20%

Mounting information

Overall diameter	547 mm / 21.54 inches
Bolt circle diameter	527 mm / 20.75 inch
Bolt hole diameter	7 mm / 0.28 inch
Front mount baffle cut-out	512 mm / 20.16 inch
Rear mount baffle cut-out	512 mm / 20.16 inch
Volume occupied by the driver	6.5 liters / 0.26 ft ³

Standard compliance

Safety agency	CE compliant
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Size / Weight	Height	245 mm / 9.65 inches
	Diameter	547 mm / 21.54 inches
	Weight	15.5 kg / 34.17 lbs



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Line Art 2D

