LF21N451

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Description

The LF21N451 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. The height of the voice coil has been specifically designed to improve the excursion and linearity at very low frequencies. The LF21N451 uses a special RCF developed carbon fibre + nylon + cellulose composite pulp which reinforces and improves the rigidity of the cone structure.
The new pulp and the large triple roll surround along double silicon spider system ensure excellent control and makes the cone resistant to deformation caused by very large displacements and pressure created by the transducer's high excursion behaviour. A fully optimised 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
› 98.5 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 34.5 Txm to provide a faster and accurate low frequency

Part Number

11100043 LF21N451 8ohm

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

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TECHNICAL SPECIFICATIONS

General specifications	Nominal Diameter	21 inch / 533 mm
	Rated Impedance	8 ohm
	Program Power (watt)	3000 W
	Power handling capacity	1500 W
	Sensitivity	98.5 dB
	Frequency range	30 - 1000 Hz
	Effective piston diameter	470 mm / 18.5 inch
	Max. Excursion Before Damage	58 mm / 2.28 inch
	Minimum Impedance (ohm)	7.1 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	Neodymium
	Dual-force air ventilation	Yes
	Spider	Dual with silicon based damping control
Thiele - small parameters	Resonance frequency (Fs)	30 Hz
	DC resistance (Re) (ohm)	5.60 ohm
	Mechanical factor	6.10 Qms
	Electrical factor	0.27 Qes
	Total factor	0.26 Qts
	Bl factor (Bl) (T x m)	34.50 T x m
	Effective moving mass (Mms)	315.0 g
	Equivalent Cas air loaded (Vas)	375.0 liters
	Effective piston area (Sd)	0.170 m2
	Max. linear excursion (Xmax)	13 mm
	Voice coil inductance @ 1kHz (Le1k)	3.00 mH
	Half-space efficency (Eff)	4.00%
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 ft3
Standard compliance	Safety agency	CE compliant

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Size / Weight	Height	249 mm / 9.8 inches
	Diameter	547 mm / 21.54 inches
	Weight	10.9 kg / 24.03 lbs

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Line Art 2D

