



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
21118210	LF21N451	



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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	03		
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 m ²	
	Max. linear excursion (Xmax)	13 mm	
	Voice coil inductance @ 1kHz (Le1k)	3.00 mH	
	Half-space efficiency (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 ft ³	
Standard compliance	Safety agency	CE compliant	
	Size		
	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

