

LF21N451

WOOFFR

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

Rev. B Last update: 08/03/2022



Standard compliance	CE marking:	Yes
	Volume occupied by the driver:	6.5 liters / 0.26 ft3
	Rear mount baffle cut-out:	512 mm / 20.16 inch
	Front mount baffle cut-out:	512 mm / 20.16 inch
	Bolt hole diameter:	7 mm / 0.28 inch
	Bolt circle diameter:	527 mm / 20.75 inch
Mounting informations	Overall diameter:	547 mm / 21.54 inches
	rian space criteries (EII).	
Thiele - small parameters	Half-space efficency (Eff):	4.00%
	Voice coil inductance @ 1kHz (Le1k):	3.00 mH
	Max. linear excursion (Xmax):	13 mm
	Effective piston area (Sd):	0.170 m2
	Equivalent Cas air loaded (Vas):	375.0 g 375.0 liters
	Effective moving mass (Mms):	34.50 T X III 315.0 g
	BI factor (BI) (T x m):	0.26 Qts 34.50 T x m
	Total factor:	0.27 Qes 0.26 Qts
	Electrical factor:	0.27 Qes
	DC resistance (Re) (ohm): Mechanical factor:	6.10 Qms
	Resonance frequency (Fs):	5.60 ohm
Thiolog cmall navameters	Docopono froguency (Fo):	30 Hz
	Spider:	Dual with silicon based damping control
	Dual-force air ventilation:	Yes
	Magnets:	Neodymium
	Surround Design:	Triple roll
	Surround Material:	Polycotton
	Cone Design:	Curved
	Top Plate Thickness:	15 mm / 0.59 inch
	Kind of layers:	inside/outside
	Number of layers:	2
	Voice Coil Length:	34 mm / 1.34 inch
	Voice Coil Winding Material:	Copper
	Voice Coil Diameter:	4.5 inch / 114 mm
	Minimum Impedance (ohm):	7.1 ohm
	Max. Excursion Before Damage:	58 mm / 2.28 inch
	Effective piston diameter:	470 mm / 18.5 inch
	Frequency range:	30 - 1000 Hz
	Sensitivity:	98.5 dB
	Power handling capacity:	1500 W
	Program Power (watt):	3000 W
	Rated Impedance:	8 ohm
General specifications		21 inch / 533 mm

DATASHEET



 Size
 Height:
 249 mm / 9.8 inches

 Diameter:
 547 mm / 21.54 inches

 Weight:
 10.9 kg / 24.03 lbs

 Shipping informations
 Package Height:
 284 mm / 11.18 inches

 Package Width:
 584 mm / 22.99 inches

 Package Depth:
 604 mm / 23.78 inches

13.5 kg / 29.76 lbs

Package Weight:

PART NUMBER

• 11100043

LF21N451 8ohm









