

LF21N551

WOOFER

DESCRIPTION

The LF21N551 is very high power handling 21" neodymium woofer. The combination of a 3600 Watt power handling and a minimum weight of 13,7 Kg makes this transducer a unique product in his category. The transducer design is based on a very strong neodymium magnetic structure and a new 5,3" inside-outside copper coil. The new Dual forced design provide an excellent heat dissipation and lower power compression. Special air-forced ventilations are provided for voice coil, magnet assembly and basket. The combination of carbon fibre loaded cone assembly, large triple roll surround, double silicon spider provides to the LF21N551 remarkable strength and best control under large excursion conditions. A fully optimised T-pole design generate the minimum amount of flux modulation offering a peak to peak excursion of 72 mm. The waterproof body cone treatment and polycotton surround ensure a durable performance in every application.



FEATURES

- 5.3 - inch Inside/Outside copper voice coil
- 4000 Watt continuous program power handling
- 97 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 39 Txm to provide a faster and accurate low frequency

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:	30 - 1000 Hz
Effective piston diameter:	470 mm / 18.5 inch
Max. Excursion Before Damage:	72 mm / 2.83 inch
Minimum Impedance (ohm):	7.1 ohm
Voice Coil Diameter:	5.3 inch / 135 mm
Voice Coil Winding Material:	Copper
Voice Coil Length:	39 mm / 1.54 inch
Number of layers:	2
Kind of layers:	inside/outside
Top Plate Thickness:	18 mm / 0.71 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):	35 Hz
DC resistance (Re) (ohm):	5.20 ohm
Mechanical factor:	6.20 Qms
Electrical factor:	0.35 Qes
Total factor:	0.33 Qts
Bl factor (Bl) (T x m):	39.00 T x m
Effective moving mass (Mms):	434.0 g
Equivalent Cas air loaded (Vas):	200.0 liters
Effettive piston area (Sd):	0.170 m ²
Max. linear excursion (Xmax):	15.0 mm
Voice coil inductance @ 1kHz (Le1k):	3.20 mH
Half-space efficiency (Eff):	2.40%

Mounting informations

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:	7.2 liters / 0.28 ft ³

Standard compliance

CE marking:	Yes
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Size	Height:	260 mm / 10.24 inches
	Diameter:	547 mm / 21.54 inches
	Weight:	14 kg / 30.86 lbs

Shipping informations	Package Height:	284 mm / 11.18 inches
	Package Width:	604 mm / 23.78 inches
	Package Depth:	584 mm / 22.99 inches
	Package Weight:	17 kg / 37.48 lbs

PART NUMBER

- **11100076**
LF21N551
8ohm



