

# LF21N401

## WOOFER

### DESCRIPTION

The LF21N401 is a high power handling and efficiency transducer specially designed to provide powerful and accurate sub-bass frequencies with low distortion and low power compression. With a fast time response, the LF21N401 uses a fiber loaded cone assembly along a large triple roll surround. This combination provides remarkable strength and control. Double silicon spider system ensures excellent control during large excursions. A fully optimized 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

- 4.0 - inch Inside/Outside copper voice coil
- 3000 Watt continuous program power handling
- 98.0dB Sensitivity
- 25Hz - 1kHz Frequency range
- Dual-forced air ventilation for minimum power compression
- Dual spider designed with silicon based damping control
- BL of 27.6 T/m 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):	3000 W
Power handling capacity:	1500 W
Sensitivity:	98 dB
Frequency range:	25 - 1000 Hz
Effective piston diameter:	470 mm / 18.5 inch
Max. Excursion Before Damage:	60 mm / 2.36 inch
Minimum Impedance (ohm):	6 ohm
Voice Coil Diameter:	4.0 inch / 102 mm
Voice Coil Winding Material:	Copper
Voice Coil Length:	31 mm / 1.22 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):	5.00 ohm
Mechanical factor:	6.80 Qms
Electrical factor:	0.40 Qes
Total factor:	0.37 Qts
Bl factor (Bl) (T x m):	27.60 T x m
Effective moving mass (Mms):	318 gr
Equivalent Cas air loaded (Vas):	374 liters
Effective piston area (Sd):	0.12 m <sup>2</sup>
Max. linear excursion (Xmax):	11 mm
Voice coil inductance @ 1kHz (Le1k):	1.70 mH
Half-space efficiency (Eff):	2.50%

### Mounting informations

Overall diameter:	547 mm / 21.54 inches
Bolt circle diameter:	527 mm / 20.75 inch
Bolt hole diameter:	512 mm / 20.16 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 <sup>3</sup>

### Standard compliance

CE marking:	Yes
-------------	-----

**Size**

Height:	234 mm / 9.21 inches
Diameter:	547 mm / 21.54 inches
Weight:	8.8 kg / 19.4 lbs

**Shipping informations**

Package Height:	605 mm / 23.82 inches
Package Width:	585 mm / 23.03 inches
Package Depth:	605 mm / 23.82 inches
Package Weight:	10 kg / 22.05 lbs

**PART NUMBER**

- **11100120**

LF21N401

8ohm



