

LF15N451

WOOFER

DESCRIPTION

The LF15N451 is a very high power handling woofer, specially designed to provide powerful and accurate bass frequencies with low distortion and low power compression. Ultra fast time response. The LF15N451 uses a fibre 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 optimised T-pole design generate the minimum amount of flux modulation to get lower distortion.

The transducer design is based on a very strong neodymium magnetic structure and a new 4,5" inside-outside copper coil, this combination guarantees higher handling especially in comparison to standard 4" voice coil designs. The unique Dual-forced air venting system provides a very efficient voice coil ventilation to minimize the power compression.



FEATURES

- 4.5-inch fiberglass inside/outside copper voice coil
- 2600 Watt continuous program power handling
- 97 dB Sensitivity
- 35 Hz – 1.5 kHz Frequency range
- Dual-forced air ventilation for minimum power compression
- Dual spider designed with silicon based damping control
- BL of 33.5 T/m to provide a faster and accurate low frequency

TECHNICAL SPECIFICATIONS

General specifications

Nominal Diameter:	15 inch / 381 mm
Rated Impedance:	8 ohm
Program Power (watt):	2600 W
Power handling capacity:	1300 W
Sensitivity:	97 dB
Frequency range:	35 - 1500 Hz
Effective piston diameter:	340 mm / 13.39 inch
Max. Excursion Before Damage:	64 mm / 2.52 inch
Minimum Impedance (ohm):	7 ohm
Voice Coil Diameter:	4.5 inch / 114 mm
Voice Coil Winding Material:	Copper
Voice Coil Length:	25 mm / 0.98 inch
Number of layers:	2
Kind of layers:	inside/outside
Top Plate Thickness:	15 mm / 0.59 inch
Cone Design:	Straight
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):	5.10 ohm
Mechanical factor:	4.20 Qms
Electrical factor:	0.19 Qes
Total factor:	0.18 Qts
Bl factor (Bl) (T x m):	33.50 T x m
Effective moving mass (Mms):	171 gr
Equivalent Cas air loaded (Vas):	125 liters
Effective piston area (Sd):	0.09 m ²
Max. linear excursion (Xmax):	9 mm
Voice coil inductance @ 1kHz (Le1k):	2.60 mH
Half-space efficiency (Eff):	2.64%

Mounting informations

Overall diameter:	393 mm / 15.47 inches
Bolt circle diameter:	371-376 mm / 14.61-14.8 inch
Bolt hole diameter:	7 mm / 0.28 inch
Front mount baffle cut-out:	354 mm / 13.94 inch
Rear mount baffle cut-out:	354 mm / 13.94 inch
Volume occupied by the driver:	3.8 liters / 0.15 ft ³

Standard compliance

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



Size	Height:	173 mm / 6.81 inches
	Diameter:	351 mm / 13.82 inches
	Weight:	9.9 kg / 21.83 lbs

Shipping informations	Package Height:	195 mm / 7.68 inches
	Package Width:	425 mm / 16.73 inches
	Package Depth:	420 mm / 16.54 inches
	Package Weight:	11.38 kg / 25.09 lbs

PART NUMBER

- **11100062**

LF15N451