

LF18N408

WOOFER

DESCRIPTION

The LF18N408 is an extended low frequency with high power handling, designed to provide powerful and accurate bass frequencies with low distortion, low power compression and very high SPL. The LF18N408 uses a fibre loaded cone assembly along a large triple roll surround, this combination provides remarkable strength and control. The single spider system is specifically designed with a heavy cloth which ensures excellent control during large excursions. A fully optimized T-pole together with double demodulating rings are designed to reduce flux modulations with benefits on harmonic and intermodulation distortions while improving the transient response. The Dual-forced air venting magnetic structure 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
- 97 dB Sensitivity
- 25 Hz - 1 kHz Frequency range
- Hyperventated magnetic structure for minimum power compression
- Triple roll surround and exponential cone geometry
- Double aluminum demodulation rings

TECHNICAL SPECIFICATIONS

General specifications

Nominal Diameter:	18 inch / 457 mm
Rated Impedance:	8 ohm
Program Power (watt):	3000 W
Power handling capacity:	1500 W
Sensitivity:	97.0 dB
Frequency range:	25 - 1000 Hz
Effective piston diameter:	395 mm / 15.55 inch
Max. Excursion Before Damage:	58 mm / 2.28 inch
Minimum Impedance (ohm):	6.0 ohm
Voice Coil Diameter:	4.0 inch / 102 mm
Voice Coil Winding Material:	Copper
Voice Coil Length:	38 mm / 1.5 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
Hyperventated magnetic structure:	Yes
Demodulation Rings material:	Aluminium
Number of Demodulation Rings:	2
Spider:	Single
Demodulation Ring:	Yes

Thiele - small parameters

Resonance frequency (Fs):	30 Hz
DC resistance (Re) (ohm):	4.30 ohm
Mechanical factor:	3.60 Qms
Electrical factor:	0.36 Qes
Total factor:	0.33 Qts
Bl factor (Bl) (T x m):	25.70 T x m
Effective moving mass (Mms):	284.0 g
Equivalent Cas air loaded (Vas):	193.0 liters
Effettive piston area (Sd):	0.122 m ²
Max. linear excursion (Xmax):	15 mm
Voice coil inductance @ 1kHz (Le1k):	1.56 mH
Half-space efficiency (Eff):	1.57%

Mounting informations

Overall diameter:	465 mm / 18.31 inches
Bolt hole diameter:	7 mm / 0.28 inch
Front mount baffle cut-out:	424 mm / 16.69 inch
Rear mount baffle cut-out:	425 mm / 16.73 inch
Volume occupied by the driver:	5.5 liters / 0.22 ft ³

Standard compliance

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



Size	Height:	223.5 mm / 8.8 inches
	Diameter:	465 mm / 18.31 inches
	Cut out diameter:	423 mm / 16.65 inches
	Weight:	9 kg / 19.84 lbs

Shipping informations	Package Height:	270 mm / 10.63 inches
	Package Width:	520 mm / 20.47 inches
	Package Depth:	495 mm / 19.49 inches
	Package Weight:	10.2 kg / 22.49 lbs

PART NUMBER

- **11100145**
LF18N408