

LF18N401

WOOFER

DESCRIPTION

Incredibly linear frequency response characteristics, the highest power handling of any comparable 18-inch neodymium transducer, the lowest power compression. The LF18N401 uses a fibre loaded cone assembly along with a high excursion triple roll, constant geometry surround. This combination provides remarkable strength venting system guarantee a very efficient voice coil ventilation for minimum power compression and higher power handling.



FEATURES

- 4 - inch, fiberglass inside-outside copper voice coil
- 2400 Watt continuous program power handling
- 98 dB Sensitivity
- 30 Hz - 1 kHz Frequency range
- Dual-forced air ventilation and 15mm top plate for minimum power compression
- Dual spider design with silicon based dampening control
- Triple-roll surround and corrugated straight cone geometry

TECHNICAL SPECIFICATIONS

General specifications

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|-------------------------------|---|
| Nominal Diameter: | 18 inch / 457 mm |
| Rated Impedance: | 8 ohm |
| Program Power (watt): | 2400 W |
| Power handling capacity: | 1200 W |
| Sensitivity: | 98 dB |
| Frequency range: | 30 - 1000 Hz |
| Effective piston diameter: | 395 mm / 15.55 inch |
| Max. Excursion Before Damage: | 52 mm / 2.05 inch |
| Minimum Impedance (ohm): | 6 ohm |
| Voice Coil Diameter: | 4.0 inch / 102 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: | Single with silicon based damping control |

Thiele - small parameters

| | |
|--------------------------------------|---------------------|
| Resonance frequency (Fs): | 32 Hz |
| DC resistance (Re) (ohm): | 5.10 ohm |
| Mechanical factor: | 6.50 Qms |
| Electrical factor: | 0.27 Qes |
| Total factor: | 0.26 Qts |
| Bl factor (Bl) (T x m): | 27.80 T x m |
| Effective moving mass (Mms): | 201 gr |
| Equivalent Cas air loaded (Vas): | 257 liters |
| Effective piston area (Sd): | 0.12 m ² |
| Max. linear excursion (Xmax): | 9 mm |
| Voice coil inductance @ 1kHz (Le1k): | 2.50 mH |
| Half-space efficiency (Eff): | 3.01% |

Mounting informations

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|--------------------------------|-----------------------------------|
| Overall diameter: | 465 mm / 18.31 inches |
| Bolt circle diameter: | 442-447 mm / 17.4-17.6 inch |
| Bolt hole diameter: | 7 mm / 0.28 inch |
| Front mount baffle cut-out: | 424 mm / 16.69 inch |
| Rear mount baffle cut-out: | 424 mm / 16.69 inch |
| Volume occupied by the driver: | 5.5 liters / 0.22 ft ³ |

Standard compliance

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| CE marking: | Yes |
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| Size | Height: | 204 mm / 8.03 inches |
| | Diameter: | 465 mm / 18.31 inches |
| | Weight: | 9.5 kg / 20.94 lbs |

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|------------------------------|-----------------|-----------------------|
| Shipping informations | Package Height: | 260 mm / 10.24 inches |
| | Package Width: | 520 mm / 20.47 inches |
| | Package Depth: | 500 mm / 19.69 inches |
| | Package Weight: | 11.4 kg / 25.13 lbs |

PART NUMBER

- **11100010**

LF18N401

8ohm



