

12NDL76

LF Drivers Neo - 12.0 Inches

800 W continuous program power capacity
76 mm (3 in) aluminium voice coil
50 - 2000 Hz response
100 dB sensitivity

Neodymium magnet allows a very light yet powerful motor assembly
Ventilated voice coil gap for reduced power compression



Specifications

Nominal diameter	320 mm (12.0 in)
Nominal impedance	8 Ω
Minimum impedance	6.2 Ω
Nominal power handling ¹	400 W
Continuous power handling ²	800 W
Sensitivity (1W/1m) ³	100.0 dB
Frequency range	50 - 2000 Hz
Voice coil diameter	76 mm (3.0 in)
Winding material	Aluminium
Former material	Glass Fibre
Winding depth	19 mm (0.75 in)
Magnetic gap depth	10 mm (0.4 in)
Flux density	1.25 T

Design

Surround shape	Double Roll
Cone shape	Exponential
Magnet material	Neodymium Inside Slug

Design

Spider	Single
Pole design	Straight Pole
Woofer cone treatment	WP Waterproof Front Side
Recommended enclosure	42.0 dm ³ (1.48 ft ³)
Recommended tuning	65 Hz

Parameters⁴

Fs	50 Hz
Re	5 Ω
Qes	0.21
Qms	4.2
Qts	0.2
Vas	73.0 dm ³ (2.5 ft ³)
Sd	522.0 cm ² (80.9 in ²)
η_0	4.3 %
Xmax	6.5 mm
Xvar	6.5 mm
Mms	53 g
Bl	20.1 Txm

Parameters

Le	1.0 mH
EBP	238 Hz

Mounting And Shipping Info

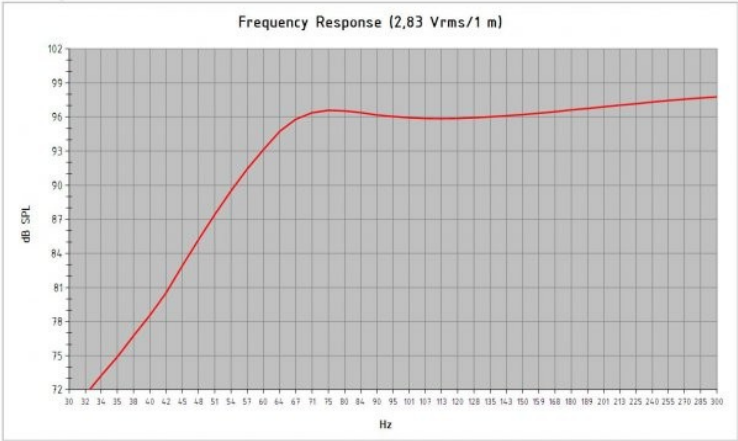
Overall diameter	315 mm (12.4 in)
Bolt circle diameter	298 mm (11.7 in)
Baffle cutout diameter	283.0 mm (11.1 in)
Depth	141 mm (5.5 in)
Flange and gasket thickness	14 mm (0.55 in)
Air volume occupied by driver	2.5 dm ³ (0.08 ft ³)
Net weight	3.9 kg (8.6 lb)
Shipping units	1
Shipping weight	4.5 kg (9.9 lb)
Shipping box	340x340x170 mm (13.4x13.4x6.7 in)

Service Kit

Replacement diaphragm	RCK12NDL768
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1. 2 hours test made with continuous pink noise signal (6 dB crest factor) within the range Fs-10Fs. Power calculated on rated minimum impedance. Loudspeaker in free air.
2. Power on Continuous Program is defined as 3 dB greater than the Nominal rating.

3. Applied RMS Voltage is set to 2.83 V for 8 ohms Nominal Impedance.
4. Thiele-Small parameters are measured after a high level 20 Hz sine wave preconditioning test.



Model: **12 NDL 76**
Enclosure Type: **Bass Reflex**

Internal Net Volume (Liters): **42**
Tuning Frequency (Hz): **65**
Frequency (-3 dB) (Hz): **68.0**

Port Area (cm²): **138.7**
Port Length (cm): **11.9**

Excursion Limited Maximum SPL at 1 meter (dB): **121.1** equal to **214.4** Watts (Bass Band Power Rating)
Thermal Limited Maximum SPL at 1 meter (dB): **123.8** equal to **400.0** Watts (Mid Band Power Rating)