

# 10NDL64

## LF Drivers - 10.0 Inches

500 W continuous program power capacity  
 64 mm (2.5 in) aluminium voice coil  
 50 - 3000 Hz response  
 97 dB sensitivity  
 Neodymium magnet allows a very light yet powerful motor assembly  
 Ventilated voice coil gap for reduced power compression

### Specifications

Nominal diameter	250 mm (10.0 in)
Nominal impedance	8 Ω
Minimum impedance	7.0 Ω
Nominal power handling <sup>1</sup>	250 W
Continuous power handling <sup>2</sup>	500 W
Sensitivity (1W/1m) <sup>3</sup>	97.0 dB
Frequency range	50 - 3000 Hz
Voice coil diameter	64 mm (2.5 in)
Winding material	Aluminium
Former material	Glass Fibre
Winding depth	14 mm (0.55 in)
Magnetic gap depth	8 mm (0.31 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	TWP Waterproof Both Sides
Recommended enclosure	26.0 dm <sup>3</sup> (0.92 ft <sup>3</sup> )
Recommended tuning	62 Hz

### Parameters<sup>4</sup>

Fs	56 Hz
Re	5.7 Ω
Qes	0.29
Qms	3.4
Qts	0.26
Vas	31.0 dm <sup>3</sup> (1.1 ft <sup>3</sup> )
Sd	320.0 cm <sup>2</sup> (50.0 in <sup>2</sup> )
η <sub>o</sub>	1.8 %
X <sub>max</sub>	6.0 mm
X <sub>var</sub>	7.0 mm
M <sub>ms</sub>	37 g
Bl	16.2 Txm

### Parameters

Le	0.9 mH
EBP	193 Hz

### Mounting And Shipping Info

Overall diameter	261 mm (10.3 in)
Bolt circle diameter	245 mm (9.6 in)
Baffle cutout diameter	230.0 mm (8.8 in)
Depth	113 mm (4.4 in)
Flange and gasket thickness	13 mm (0.5 in)
Air volume occupied by driver	1.5 dm <sup>3</sup> (0.05 ft <sup>3</sup> )
Net weight	2.9 kg (6.4 lb)
Shipping weight	3.5 kg (7.7 lb)
Shipping box	330x330x160 mm (13x13x6.3 in)

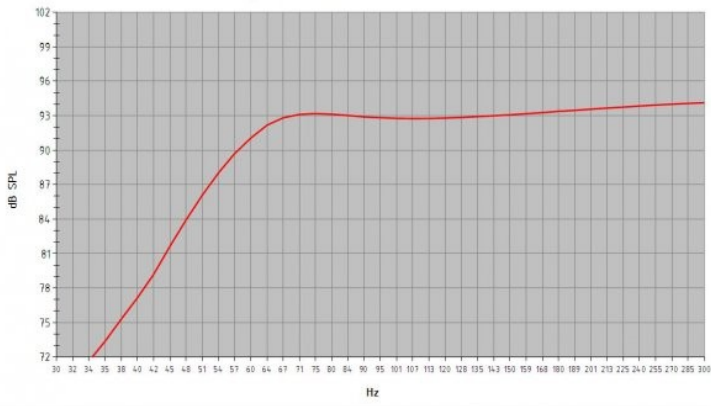
### Service Kit

RCK10NDL648
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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.

Frequency Response (2,83 Vrms/1 m)



Model: **10 NDL 64**  
Enclosure Type: **Bass Reflex**

Internal Net Volume (Liters): **26**  
Tuning Frequency (Hz): **62** Port Area (cm<sup>2</sup>): **69.4**  
Frequency (-3 dB) (Hz): **62.4** Port Length (cm): **12.7**

Excursion Limited Maximum SPL at 1 meter (dB): **116.0** equal to **152.0** Watts (Bass Band Power Rating)  
Thermal Limited Maximum SPL at 1 meter (dB): **118.2** equal to **250.0** Watts (Mid Band Power Rating)