

# 8NDL51

## LF Drivers - 8.0 Inches

50 mm (2 in) copper voice coil  
70 - 3000 Hz response  
94 dB sensitivity

Neodymium magnet allows a very light yet powerful motor assembly  
Shorting copper cap for extended HF response  
400 W continuous program power capacity  
Ventilated voice coil gap for reduced power compression



### Specifications

Nominal diameter	200 mm (8.0 in)
Nominal impedance	8 Ω
Minimum impedance	6.6 Ω
Nominal power handling <sup>1</sup>	200 W
Continuous power handling <sup>2</sup>	400 W
Sensitivity (1W/1m) <sup>3</sup>	94.0 dB
Frequency range	65 - 3000 Hz
Voice coil diameter	51 mm (2.0 in)
Winding material	Copper
Former material	Glass Fibre
Winding depth	17 mm (0.65 in)
Magnetic gap depth	8 mm (0.31 in)
Flux density	1.05 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	14.0 dm <sup>3</sup> (0.49 ft <sup>3</sup> )
Recommended tuning	65 Hz

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

Fs	66 Hz
Re	5 Ω
Qes	0.41
Qms	3.6
Qts	0.37
Vas	14.0 dm <sup>3</sup> (0.5 ft <sup>3</sup> )
Sd	220.0 cm <sup>2</sup> (34.1 in <sup>2</sup> )
η <sub>o</sub>	1.0 %
X <sub>max</sub>	7.0 mm
X <sub>var</sub>	7.0 mm
M <sub>ms</sub>	28 g
Bl	12.4 Txm

### Parameters

Le	0.5 mH
EBP	160 Hz

### Mounting And Shipping Info

Overall diameter	225 mm (8.8 in)
Bolt circle diameter	210 mm (8.3 in)
Baffle cutout diameter	187.0 mm (7.4 in)
Depth	90 mm (3.5 in)
Flange and gasket thickness	11 mm (0.4 in)
Air volume occupied by driver	1.1 dm <sup>3</sup> (0.04 ft <sup>3</sup> )
Net weight	1.8 kg (4.0 lb)
Shipping units	1
Shipping weight	2.2 kg (4.8 lb)
Shipping box	300x160x180 mm (11.8x6.3x7.1 in)

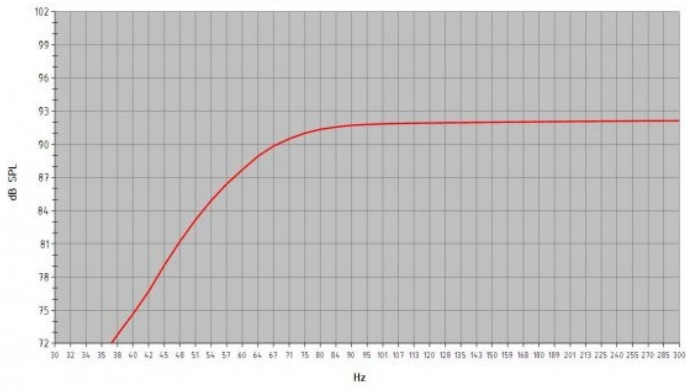
### Service Kit

RCK008NDL518
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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: **8 ND1 51**  
Enclosure Type: **Bass Reflex**

Internal Net Volume (Liters): **14**  
Tuning Frequency (Hz): **65**  
Frequency (-3 dB) (Hz): **64.7**

Port Area (cm<sup>2</sup>): **32.2**  
Port Length (cm): **10.8**

Excursion Limited Maximum SPL at 1 meter (dB): **113.4** equal to **160.2** Watts (Bass Band Power Rating)  
Thermal Limited Maximum SPL at 1 meter (dB): **114.4** equal to **200.0** Watts (Mid Band Power Rating)