

# 6NDL38

## LF Drivers - 6.5 Inches

38 mm (1.5 in) copper voice coil  
70 - 6000 Hz response  
92 dB sensitivity

Neodymium magnet allows a very light yet powerful motor assembly  
Aluminium demodulating ring allows a very low distortion figure  
300 W continuous program power capacity



### Specifications

Nominal diameter	170 mm (6.5 in)
Nominal impedance	8 Ω
Minimum impedance	6.0 Ω
Nominal power handling <sup>1</sup>	150 W
Continuous power handling <sup>2</sup>	300 W
Sensitivity (1W/1m) <sup>3</sup>	92.0 dB
Frequency range	70 - 6000 Hz
Voice coil diameter	38 mm (1.5 in)
Winding material	Copper
Former material	Kapton
Winding depth	12 mm (0.5 in)
Magnetic gap depth	6 mm (0.25 in)
Flux density	1.15 T

### Design

Surround shape	Roll
Cone shape	Exponential
Magnet material	Neodymium Ring

### Design

Spider	Single
Pole design	T-Pole
Woofer cone treatment	WP Waterproof Front Side
Recommended enclosure	9.0 dm <sup>3</sup> (0.32 ft <sup>3</sup> )
Recommended tuning	62 Hz

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

Fs	72 Hz
Re	5.2 Ω
Qes	0.44
Qms	11.5
Qts	0.42
Vas	7.0 dm <sup>3</sup> (0.25 ft <sup>3</sup> )
Sd	132.0 cm <sup>2</sup> (20.5 in <sup>2</sup> )
η <sub>o</sub>	0.6 %
X <sub>max</sub>	6.0 mm
X <sub>var</sub>	5.5 mm
M <sub>ms</sub>	17 g
Bl	9.5 Txm

### Parameters

Le	0.6 mH
EBP	163 Hz

### Mounting And Shipping Info

Overall diameter	187 mm (7.4 in)
Bolt circle diameter	172 mm (6.7 in)
Baffle cutout diameter	145.0 mm (5.7 in)
Depth	85 mm (3.3 in)
Flange and gasket thickness	11 mm (0.4 in)
Air volume occupied by driver	0.63 dm <sup>3</sup> (0.02 ft <sup>3</sup> )
Net weight	1.2 kg (2.6 lb)
Shipping units	1
Shipping weight	1.45 kg (3.2 lb)
Shipping box	221x214x130 mm (8.7x8.4x5.1 in)

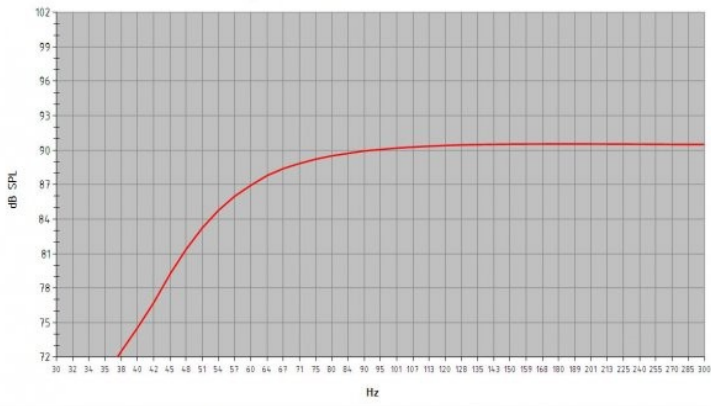
### Service Kit

RCK06NDL388
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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: **6 NDL 38**  
 Enclosure Type: **Bass Reflex**

Internal Net Volume (Liters): **9**  
 Tuning Frequency (Hz): **62** Port Area (cm<sup>2</sup>): **15,2**  
 Frequency (-3 dB) (Hz): **62,0** Port Length (cm): **9,4**

Excursion Limited Maximum SPL at 1 meter (dB): **106,9** equal to **59,3** Watts (Bass Band Power Rating)  
 Thermal Limited Maximum SPL at 1 meter (dB): **110,9** equal to **150,0** Watts (Mid Band Power Rating)