

10CL51

LF Drivers - 10.0 Inches

300 W continuous program power capacity
 51 mm (2 in) aluminium voice coil
 60 - 4000 Hz response
 96 dB sensitivity



Specifications

Nominal diameter	250 mm (10.0 in)
Nominal impedance	8 Ω
Minimum impedance	6.0 Ω
Nominal power handling ¹	150 W
Continuous power handling ²	300 W
Sensitivity (1W/1m) ³	96.0 dB
Frequency range	60 - 4000 Hz
Voice coil diameter	51 mm (2.0 in)
Winding material	Aluminium
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	None
Recommended enclosure	32.0 dm ³ (1.13 ft ³)
Recommended tuning	56 Hz

Parameters⁴

Fs	60 Hz
Re	5.2 Ω
Qes	0.44
Qms	3.8
Qts	0.39
Vas	31.0 dm ³ (1.1 ft ³)
Sd	320.0 cm ² (49.1 in ²)
η _o	1.55 %
X _{max}	6.0 mm
X _{var}	6.0 mm
M _{ms}	32 g
Bl	12.0 Txm

Parameters

Le	0.8 mH
EBP	136 Hz

Mounting And Shipping Info

Overall diameter	257 mm (10.1 in)
Bolt circle diameter	246 mm (9.7 in)
Baffle cutout diameter	232.0 mm (9.1 in)
Depth	108 mm (4.25 in)
Flange and gasket thickness	7 mm (0.28 in)
Air volume occupied by driver	1.0 dm ³ (0.03 ft ³)
Net weight	1.2 kg (2.6 lb)
Shipping weight	1.8 kg (4.0 lb)
Shipping box	320x320x160 mm (12x12x6.3 in)

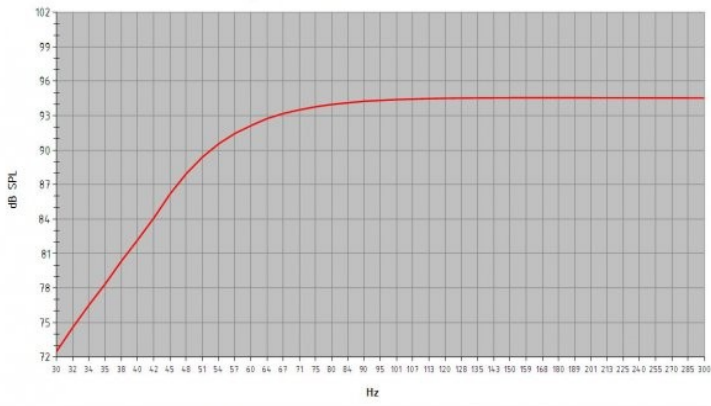
Service Kit

RCK10CL518

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 CL 51**
 Enclosure Type: **Bass Reflex**
 Internal Net Volume (Liters): **32**
 Tuning Frequency (Hz): **56** Port Area (cm²): **69,4**
 Frequency (-3 dB) (Hz): **57,3** Port Length (cm): **12,6**
 Excursion Limited Maximum SPL at 1 meter (dB): **113,2** equal to **99,0** Watts (Bass Band Power Rating)
 Thermal Limited Maximum SPL at 1 meter (dB): **115,0** equal to **150,0** Watts (Mid Band Power Rating)