

21DS115

LF Drivers - 21.0 Inches



3400 W continuous program power capacity
116 mm (4.5 in) split winding four layer aluminum
voice coil

30 - 1000 Hz response

99 dB sensitivity

60 mm peak-to-peak excursion before damage

Neodymium magnet allows a very high force factor
and linear excursion

Double silicone spider with optimized compliance

Ventilated voice coil gap for reduced power
compression

Aluminium demodulating ring for very low distortion

Specifications

Nominal diameter	530 mm (21.0 in)
Nominal impedance	8 Ω
Minimum impedance	6.5 Ω
Nominal power handling ¹	1700 W
Continuous power handling ²	3400 W
Sensitivity (1W/1m) ³	99.0 dB
Frequency range	30 - 1000 Hz
Voice coil diameter	116 mm (4.5 in)
Winding material	Aluminium
Former material	Glass Fibre
Winding depth	36 mm (1.42 in)
Magnetic gap depth	14 mm (0.55 in)
Flux density	0.8 T

Design

Surround shape	Triple Roll
Cone shape	Radial
Magnet material	Neodymium Inside Slug

Design

Spider	Double Silicone
Pole design	T-Pole
Woofer cone treatment	TWP Waterproof Both Sides
Recommended enclosure	130.0 dm ³ (4.59 ft ³)
Recommended tuning	40 Hz

Parameters⁴

Fs	30 Hz
Re	5.1 Ω
Qes	0.24
Qms	10.0
Qts	0.23
Vas	269.0 dm ³ (9.5 ft ³)
Sd	1680.0 cm ² (260.4 in ²)
η_o	3.0 %
Xmax	15.0 mm
Xvar	16.5 mm
Mms	407 g
Bl	40.8 Txm

Parameters

Le	4.6 mH
EBP	125 Hz

Mounting And Shipping Info

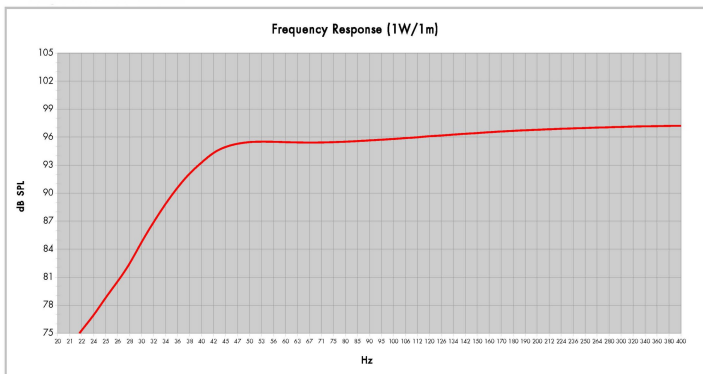
Overall diameter	547 mm (21.54 in)
Bolt circle diameter	527 mm (20.7 in)
Baffle cutout diameter	508.0 mm (20.0 in)
Depth	255 mm (10.04 in)
Flange and gasket thickness	13 mm (0.51 in)
Air volume occupied by driver	15.0 dm ³ (0.53 ft ³)
Net weight	14.8 kg (32.63 lb)
Shipping units	1
Shipping weight	17.2 kg (37.92 lb)
Shipping box	590x590x300 mm (23.1x23.1x11.8 in)

Service Kit

RCK21DS1158

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: **21DS115**
Enclosure Type: **Bass Reflex** Configuration: **One Driver**
Internal Net Volume (litres): **130** QB: **7**
Tuning Frequency (Hz): **40** Port Area (cm²): **333,0**
Frequency (-3 dB) (Hz): **42,7** Port Length (cm): **30,2**
Frequency (-10 dB) (Hz): **32,5**