

# 21SW115

## LF Drivers - 21.0 Inches



- 3400 W continuous program power capacity
- 116 mm (4.5 in) split winding copper voice coil
- 33 - 1000 Hz response
- 97 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	4 Ω
Minimum impedance	4.2 Ω
Nominal power handling <sup>1</sup>	1700 W
Continuous power handling <sup>2</sup>	3400 W
Sensitivity (1W/1m) <sup>3</sup>	97.0 dB
Frequency range	33 - 1000 Hz
Voice coil diameter	116 mm (4.5 in)
Winding material	Copper
Former material	Glass Fibre
Winding depth	34 mm (1.34 in)
Magnetic gap depth	14 mm (0.55 in)
Flux density	1.15 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	250.0 dm <sup>3</sup> (8.83 ft <sup>3</sup> )
Recommended tuning	32 Hz

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

Fs	33 Hz
Re	3.6 Ω
Qes	0.37
Qms	7.7
Qts	0.36
Vas	278.0 dm <sup>3</sup> (9.7 ft <sup>3</sup> )
Sd	1680.0 cm <sup>2</sup> (260.4 in <sup>2</sup> )
η <sub>o</sub>	2.6 %
X <sub>max</sub>	14.0 mm
X <sub>var</sub>	15.0 mm
M <sub>ms</sub>	335 g
Bl	24.8 Txm

### Parameters

Le	1.7 mH
EBP	89 Hz

### Mounting And Shipping Info

Overall diameter	547 mm (21.5 in)
Bolt circle diameter	527 mm (20.7 in)
Baffle cutout diameter	508.0 mm (20.0 in)
Depth	250 mm (9.9 in)
Flange and gasket thickness	14 mm (0.53 in)
Air volume occupied by driver	15.0 dm <sup>3</sup> (0.53 ft <sup>3</sup> )
Net weight	14.0 kg (30.8 lb)
Shipping units	1
Shipping weight	16.4 kg (36.1 lb)
Shipping box	590x590x300 mm (23.1x23.1x11.8 in)

### Service Kit

RCK21SW1154
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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.

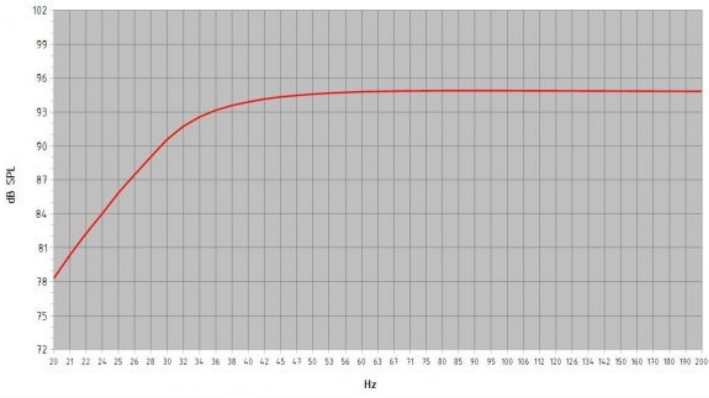
2. Power on Continuous Program is defined as 3 dB greater than the Nominal rating.

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 Vrms/1 m)



Model: **21 SW 115**  
Enclosure Type: **Bass Reflex**

Internal Net Volume (Liters): **250**  
Tuning Frequency (Hz): **32** Port Area (cm<sup>2</sup>): **482.8**  
Frequency (-3 dB) (Hz): **32.1** Port Length (cm): **35.1**

Excursion Limited Maximum SPL at 1 meter (dB): **125.5** equal to **1127.9** Watts (Bass Band Power Rating)  
Thermal Limited Maximum SPL at 1 meter (dB): **127.3** equal to **1700.0** Watts (Mid Band Power Rating)