

# L18S801

## WOOFER

### DESCRIPTION

The L18S801 is the RCF classical high efficiency 18" woofer.

A perfect blend of voice coil length, moving mass weight and suspensions control makes this transducer the preferred solution for many speakers and rental companies. Voice coil construction, suspension and cone materials are upgrade in order to withstand up to 700 watt RMS power.



### FEATURES

- 4-inch, fiberglass inside/outside copper voice coil
- 1400W continuous program power handling
- 99.5 dB Sensitivity
- 38 Hz – 1 kHz Frequency range
- Dual spider design with silicon based dampening control
- M-roll surround and exponential cone geometry

## TECHNICAL SPECIFICATIONS

### General specifications

Nominal Diameter:	18 inch / 457 mm
Rated Impedance:	8 ohm
Program Power (watt):	1400 W
Power handling capacity:	700 W
Sensitivity:	99.5 dB
Frequency range:	38 - 1000 Hz
Effective piston diameter:	380 mm / 14.96 inch
Max. Excursion Before Damage:	40 mm / 1.57 inch
Minimum Impedance (ohm):	6.3 ohm
Voice Coil Diameter:	4.0 inch / 102 mm
Voice Coil Winding Material:	Copper
Voice Coil Length:	19 mm / 0.75 inch
Number of layers:	2
Kind of layers:	inside/outside
Top Plate Thickness:	10 mm / 0.39 inch
Cone Design:	Curved
Surround Material:	Polycotton
Surround Design:	M-roll
Magnets:	Ceramic
Dual-force air ventilation:	Yes
Spider:	Dual with silicon based damping control

### Thiele - small parameters

Resonance frequency (Fs):	39 Hz
DC resistance (Re) (ohm):	4.90 ohm
Mechanical factor:	8.30 Qms
Electrical factor:	0.30 Qes
Total factor:	0.29 Qts
Bl factor (Bl) (T x m):	24.50 T x m
Effective moving mass (Mms):	148.0 g
Equivalent Cas air loaded (Vas):	206.0 liters
Effective piston area (Sd):	0.110 m <sup>2</sup>
Max. linear excursion (Xmax):	7 mm
Voice coil inductance @ 1kHz (Le1k):	1.70 mH
Half-space efficiency (Eff):	3.93%

### Mounting informations

Overall diameter:	460 mm / 18.11 inches
Bolt circle diameter:	438 mm / 17.24 inch
Bolt hole diameter:	8 mm / 0.31 inch
Front mount baffle cut-out:	416 mm / 16.38 inch
Rear mount baffle cut-out:	418 mm / 16.46 inch
Volume occupied by the driver:	6.5 liters / 0.26 ft <sup>3</sup>

### Standard compliance

CE marking:	Yes
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<b>Size</b>	Height:	202 mm / 7.95 inches
	Diameter:	460 mm / 18.11 inches
	Weight:	12 kg / 26.46 lbs

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<b>Shipping informations</b>	Package Height:	240 mm / 9.45 inches
	Package Width:	510 mm / 20.08 inches
	Package Depth:	480 mm / 18.9 inches
	Package Weight:	14 kg / 30.86 lbs

## **PART NUMBER**

- **11100047**  
L18S801  
8ohm



