



# Sub218L

Dual 18 inch Direct-Radiating Subwoofer

**VLF** Install



## Overview

The Sub218L is a low profile, dual 18 inch vented subwoofer that is designed to provide extended low frequency support in a wide variety of installations. Its premium, high power transducers are physically engaging, yet are musically articulate enough to reproduce the subtlety and harmonic nuance of an upright bass or the low strings of a piano.

The Sub218L requires digital signal processing, and many platforms are supported. The Sub218L is an excellent option any time a subwoofer with robust SPL capability is required to fit under a short stage or similar structure. This makes it the perfect choice for large houses of worship or theatres, live reinforcement or dance systems, high intensity DJ monitors, A/V screening rooms, and distributed low frequency reinforcement in nightclubs and theme parks.

## Technologies

The two 18 inch woofers in the Sub218L have high power, 4 inch voice coils, and are capable of impressively large excursion. The enclosure is optimally tuned to provide maximum low frequency output.

## Performance Specifications<sup>1</sup>

### Operating Mode

Single-amplified w/ DSP

### Operating Range<sup>2</sup>

24 Hz to 152 Hz

### Nominal Beamwidth

Spherical within operating range

### Transducers

LF: 2x 18.0" woofers, 4.0" voice coil; ceramic magnet

### Power Handling @ Nominal Impedance<sup>3</sup>

98 V / 2400 W @ 4  $\Omega$  (2x 1200 W @ 8  $\Omega$ )

### Nominal Sensitivity @ Input Voltage<sup>4</sup> (half / whole space)

103 dB / 97 dB @ 2.00 V

### Nominal Maximum Continuous SPL (half / whole space)

143dB / 137 dB peak  
137 dB / 131 dB continuous

### Equalized Sensitivity @ Input Voltage<sup>5</sup> (half / whole space)

102 dB / 96 dB @ 2.00 V

### Equalized Maximum SPL<sup>6</sup> (half / whole space)

141 dB / 135 dB peak  
135 dB / 129 dB continuous

### Recommended Power Amplifier

2400 W to 3600 W @ 4  $\Omega$

## Physical Specifications

### Connections

(2) Neutrik NL4 Speakon

Pin 1+/-: LF1

Pin 2+/-: LF2

### Mounting / Suspension Points

(12) M10 x 1.5 eye bolt angle points

### Dimensions / Weight

See page 4

### Finish

Black or white painted enclosure

White enclosure does not include handles

## Options

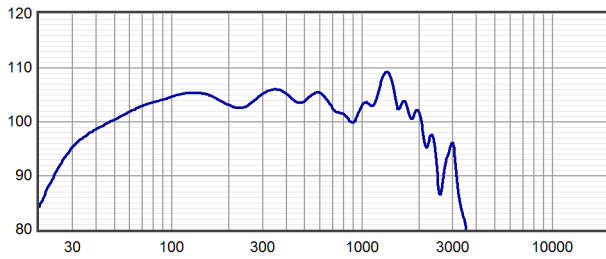
Terminal strip input, Custom color finish,

Weather-resistant (WR) enclosure

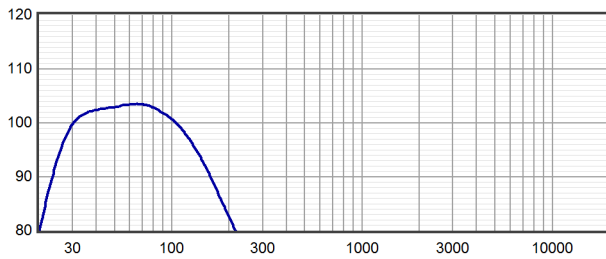


product specification

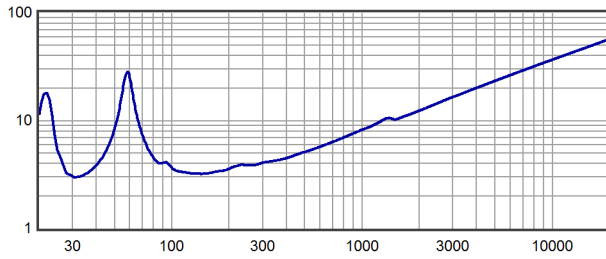
Axial Sensitivity (dB SPL, 2.00V @ 1 m, half space)<sup>7,8</sup>



Axial Processed Response (dB, half space)<sup>7,9</sup>



Impedance (ohms)

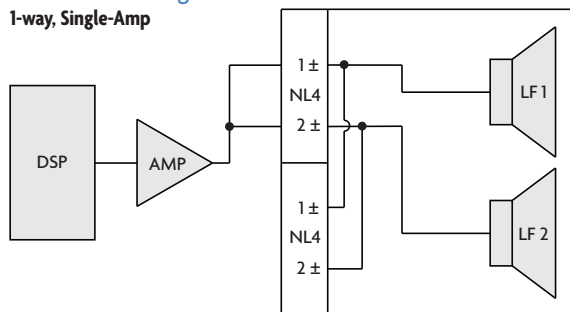




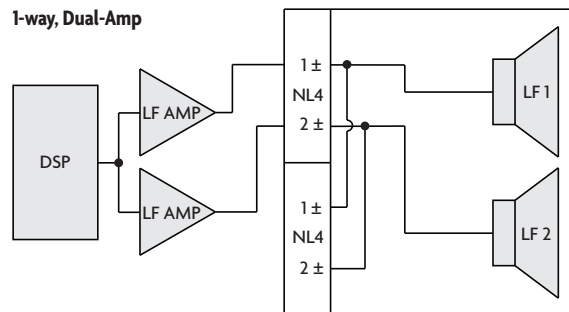
## product specification

### Connection Diagram

#### 1-way, Single-Amp



#### 1-way, Dual-Amp



### Mechanical Specification Drawings

2D and 3D DWG dimensional drawings are available for download at [www.fulcrum-acoustic.com/support](http://www.fulcrum-acoustic.com/support).

### Notes

- <sup>1</sup> Performance Specifications All acoustic specifications rounded to nearest whole number. External DSP with Fulcrum Acoustic-provided settings is required to achieve the specified performance.
- <sup>2</sup> Operating Range The frequency range within which the processed response is within 10 dB of the average.
- <sup>3</sup> Power Handling Based on the AES power handling of the transducers.
- <sup>4</sup> Nominal Sensitivity The 1-meter-referenced SPL produced by a 1 watt band limited pink noise signal, with no processing applied.
- <sup>5</sup> Equalized Sensitivity The 1-meter-referenced SPL produced when an EIA-426-B signal is applied to an equalized loudspeaker system, at a level which produces a total power of 1 watt, in sum, to the loudspeaker subsections.
- <sup>6</sup> Equalized Maximum SPL The 1-meter-referenced SPL produced when an EIA-426-B signal is applied to an equalized loudspeaker system, at a level which drives at least one subsection to its rated power.
- <sup>7</sup> Resolution All response graphs are subjected to 1/6 octave cepstral smoothing with a gaussian weighting function.
- <sup>8</sup> Axial Sensitivity The SPL plotted against frequency for a 1 watt swept sine wave, referenced to 1 m with no signal processing.
- <sup>9</sup> Axial Processed Response The axial magnitude response with recommended signal processing applied.