



RDL[®]
Radio Design Labs

SPECIALISTS IN PRACTICAL PRECISION ENGINEERING™

STICK-ON[®] SERIES

Model ST-CX2S

Subwoofer Filter

ANYWHERE YOU NEED...

- Active Subwoofer Equalization
- Isolated Stereo Inputs
- Adjustable Low-frequency Boost
- Very Low Noise & Distortion Filter
- STICK-ON Convenience
- RDL SupplyFlex™ Power Input Configuration



You Need The ST-CX2S!

The ST-CX2S is a subwoofer signal equalizer in the STICK-ON series of products from Radio Design Labs. Various mounting options permit installation right where you need it, or use it with RDL racking accessories. The ST-CX2S offers flexibility in equalization adjustment, with the exceptional performance RDL products are known for.

APPLICATION: The ST-CX2S features two separate isolated balanced-bridging inputs, which may each be wired balanced or unbalanced. The output driver is 150 Ω balanced which can drive low or high impedance balanced or unbalanced lines. The module operates at unity gain at 63 Hz (balanced input to balanced output). A **BOOST** control permits adjustment of the output at 32 Hz from flat to +5.5 dB.

The ST-CX2S line-level stereo inputs are intended to bridge existing line-level feeds, and are totally isolated from each other to produce no degradation of an existing stereo signal. A mono signal may be connected to either one of the two inputs (and the other input remains unused). The output from the ST-CX2S feeds the line-level input of the power amplifier being used to drive the subwoofer.

This module is the ideal companion to the RDL ST-CX2 active two-way line level crossover. The ST-CX2 modules provide line-level audio for amplified two-way systems plus a loop-through output to feed an RDL ST-CX2S if a subwoofer is included in the system design.

The ST-CX2S features RDL's SupplyFlex power input configuration for operation directly from ground-referenced, floating or bipolar 24 Vdc power.

Whether adding a subwoofer amplifier/speaker to an existing system, or designing an audio system with subwoofers, the ST-CX2S is the ideal choice. Its extremely low noise and low distortion makes it suitable for the most demanding applications. Whenever used in conjunction with other RDL RACK-UP[®], STICK-ON, TX[™], or FLAT-PAK[™] series products, the ST-CX2S can be part of the most versatile and high performance sound systems!

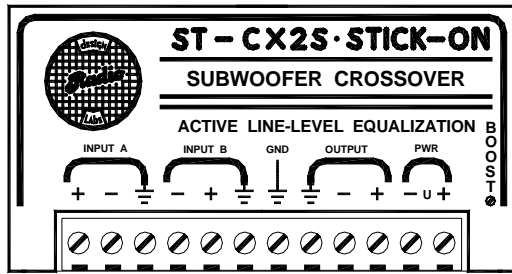


STICK-ON[®] SERIES Model ST-CX2S Subwoofer Filter

Installation/Operation



EN55103-1 E1-E5; EN55103-2 E1-E4
Typical Performance reflects product at publication time exclusive of EMC data, if any, supplied with product. Specifications are subject to change without notice.



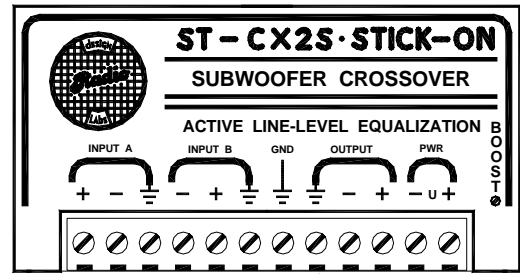
AUDIO WIRING

SIGNAL FROM
BALANCED
LINE-LEVEL
SOURCE

SIGNAL FEEDING
BALANCED
LINE-LEVEL
EQUIPMENT

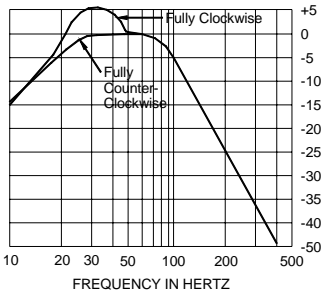
USE BOTH
INPUTS FOR
STEREO SOURCE

25 TURN
BOOST
ADJUST

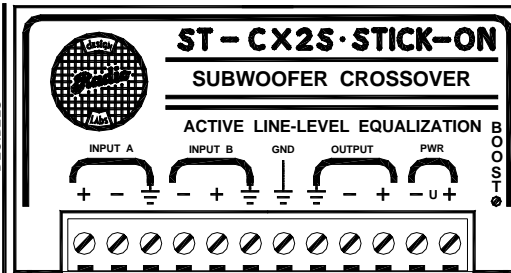


SIGNAL FROM
UNBALANCED
LINE-LEVEL
SOURCE

SIGNAL FEEDING
UNBALANCED
LINE-LEVEL
EQUIPMENT



BOOST ADJUST Adjust for desired low frequency boost. This control is factory set to match the JBL Model 4645 THX approved subwoofer (THX is the registered trademark of Lucasfilm, Ltd.). This is a 25-turn control which sets the boost at 30 Hz. It may be turned counterclockwise for subwoofers not requiring this boost.



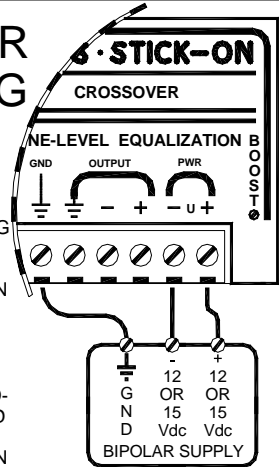
OPTIONAL JUMPER
(WHEN USING GROUND-REFERENCED POWER SUPPLY)

24 VDC
POWER
SOURCE

POWER WIRING

DO NOT
GROUND
NEGATIVE
FOR FLOATING
OR BIPOLAR
POWER
INSTALLATION

OR
GROUND
NEGATIVE
FOR GROUND-
REFERENCED
POWER
INSTALLATION



TYPICAL PERFORMANCE

Input/Output Level:	+4 dBu line level	Headroom:	18 dB minimum at 30 Hz (maximum boost), 22 dB typical
Input Impedance:	50 kΩ	THD+N:	< 0.05%
Input Configuration:	Balanced or unbalanced, bridging	CMRR:	> 60 dB at 60 Hz or above
Output Impedance:	150 Ω	Residual Noise:	< 90 dB below operating level; 95 dB typical
Output Configuration:	Balanced or unbalanced line level	Power Requirement:	24 to 33 Vdc @ 30 mA, Ground-referenced or Floating
Output Bandwidth:	22 Hz to 80 Hz, adjustable boost per curve	Dimensions:	Height: 1.55 in. 3.94 cm Width: 3.00 in. 7.62 cm Depth: 0.65 in. 1.65 cm
High Freq. Attenuation:	Per curve, > 45 dB at 400 Hz		
Gain:	Unity at 63 Hz; adjustable flat to 5.5 dB at 32 Hz		