



RDL[®]
Radio Design Labs

SPECIALISTS IN PRACTICAL PRECISION ENGINEERING™

STICK-ON[®] SERIES

Model ST-CX1W

Woofer Filter

ANYWHERE YOU NEED...

- Active Low-Frequency Equalization
- Low-Frequency Bandpass
- Adjustable Low-Frequency EQ
- Very Low Noise
- Very Low Distortion
- STICK-ON Convenience



You Need The ST-CX1W!

The ST-CX1W is part of the group of versatile STICK-ON products from Radio Design Labs. STICK-ONS feature the advanced circuitry for which RDL products are known, combined with unequalled versatility in mounting possibilities. The durable adhesives provided with the ST-CX1W permit permanent or detachable mounting. Numerous available mounting accessories, brackets and rack-mount chassis are optionally available to facilitate any system design.

APPLICATION: The ST-CX1W is intended to operate as a line-level (+4 dBu) equalizer feeding an audio power amplifier. It is designed for use with woofers amplified independently of any full-range speakers. The passband of the ST-CX1W is 40 Hz to 165 Hz when set *flat*, with an equalization **BOOST** adjustment centered at 50 Hz. RDL produces companion filter modules for systems also incorporating full-range drivers and/or a subwoofer.

The ST-CX1W features a balanced-bridging input, which may be wired balanced or unbalanced. The balanced input terminals are *looped through* for connection into RDL's ST-CX1S Subwoofer Filter.

The output driver is 150 Ω balanced which can drive low or high impedance balanced or unbalanced lines. The module operates nominally at unity gain when the equalization control is set flat. A smooth 50 Hz *boost* curve is set using the 25-turn trimming potentiometer.

The ST-CX1W features excellent frequency response, accurate active state-of-the-art filtering, and the exceptional low-noise performance for which RDL products are known.

Wherever high quality, active equalization is needed to extract low frequency signals to feed a powered woofer, the ST-CX1W is the ideal choice. Use the ST-CX1W individually, or combine it with other RDL RACK-UP[®], STICK-ON, TX[™], or FLAT-PAK[™] series products as part of a complete audio/video system.

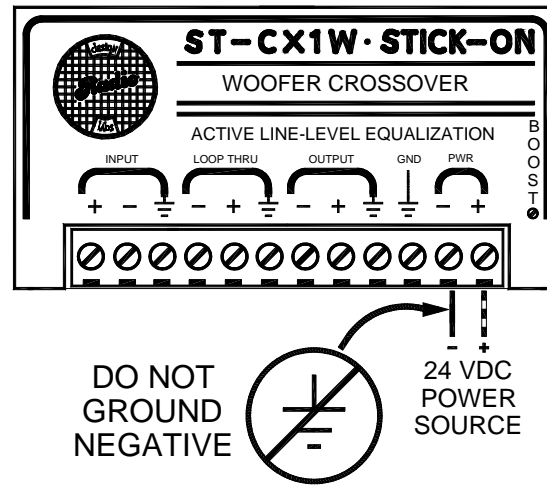
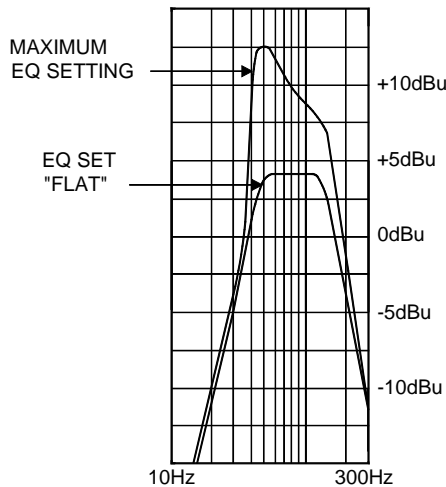
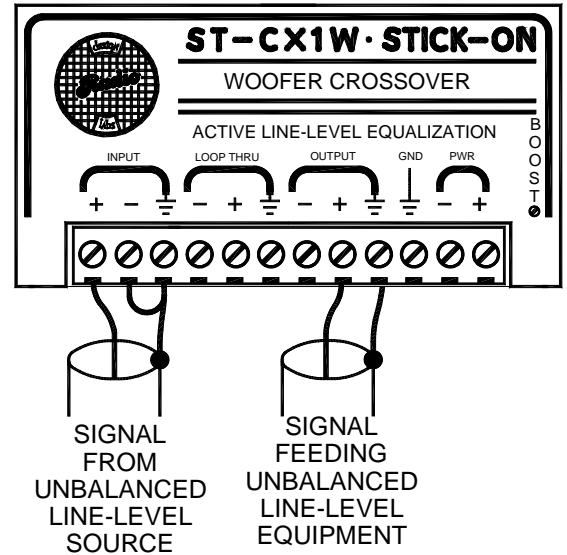
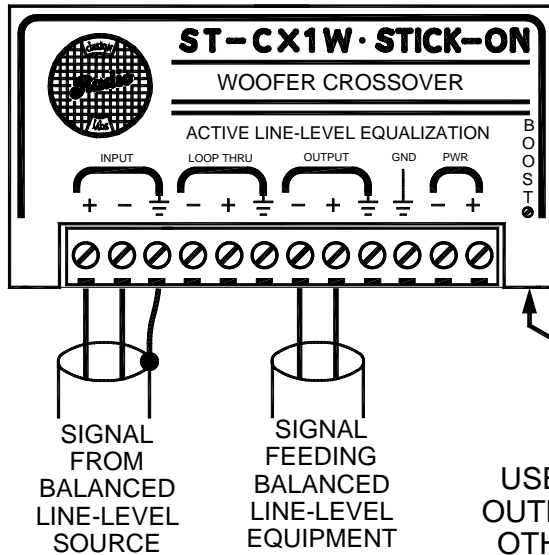
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Woofer Filter

Installation/Operation

CE 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.



POWER WIRING

RDL PS-24 TYPE SUPPLY SHOWN. A BIPOLAR 12 OR 15 VOLT DC SUPPLY MAY BE USED WITH BIPOLAR SUPPLY GROUND CONNECTED TO MODULE GND.

TYPICAL PERFORMANCE

Input:	Line level (+4 dBu nominal)
Input Impedance:	20 k Ω balanced bridging; accepts balanced or unbalanced signals
Output:	Line level (+4 dBu nominal) @ 150 Ω (to drive hi or low impedance balanced or unbalanced line) > 18 dB
Headroom:	Unity (nominal, with equalization set flat)
Gain:	40 Hz to 165 Hz (\pm 0.5 dB)
Frequency Response:	< 0.025% (40 Hz to 165 Hz)
THD+N:	< -95 dB (referred to +4 dBu)
Residual Noise:	18 dB/Octave
Low-Frequency Roll-off:	24 to 33 Vdc @ 30 mA, Floating
Power Requirement:	

Radio Design Labs Technical Support Centers

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