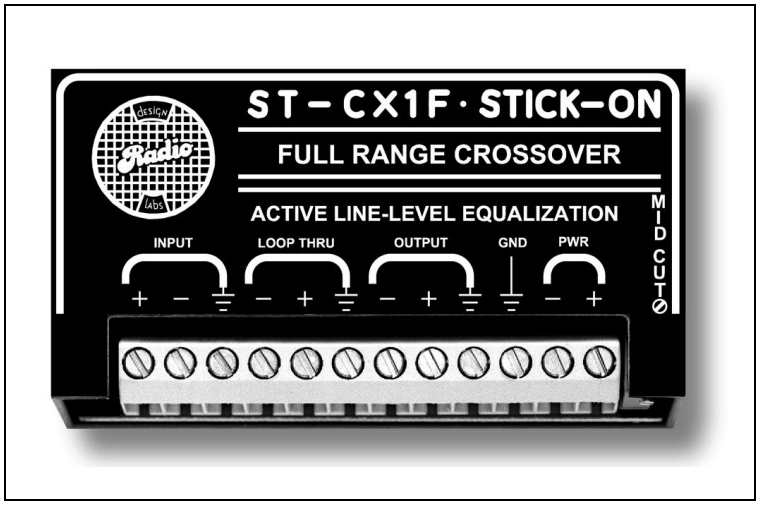
RDL® Radio Design Labs®

SPECIALISTS IN PRACTICAL PRECISION ENGINEERING™

STICK-ON® SERIES

Model ST-CX1F
Full-Range Filter



ANYWHERE YOU NEED...

- Active Full-Range Equalization
- Low-Frequency Rolloff
- Adjustable Smile-Curve
- Very Low Noise
- Very Low Distortion
- STICK-ON Convenience

You Need The ST-CX1F!

The ST-CX1F 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-CX1F 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-CX1F is intended to operate as a line-level (+4 dBu) equalizer feeding an audio power amplifier. It is designed for use with full-range speaker systems that do not contain a woofer (below 100 Hz). The pass-band of the ST-CX1F is 100 Hz to 30 kHz, with an equalization adjustment centered at 2 kHz. Through the application of a smile-curve providing up to 8 dB attenuation through mid-band audio frequencies, the performance of the whole system may be significantly enhanced. For full-range systems also incorporating a woofer and/or subwoofer, RDL produces companion filter modules.

The ST-CX1F features a balanced-bridging input, which may be wired balanced or unbalanced. The balanced-bridging terminals are looped out for connection into RDL's ST-CX1W Woofer Filter and/or 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 mid-band attenuation curve is set using the 25-turn trimming potentiometer.

The ST-CX1F 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 tailor the sound in a full-range system, the ST-CX1F is the ideal choice. Use the ST-CX1F 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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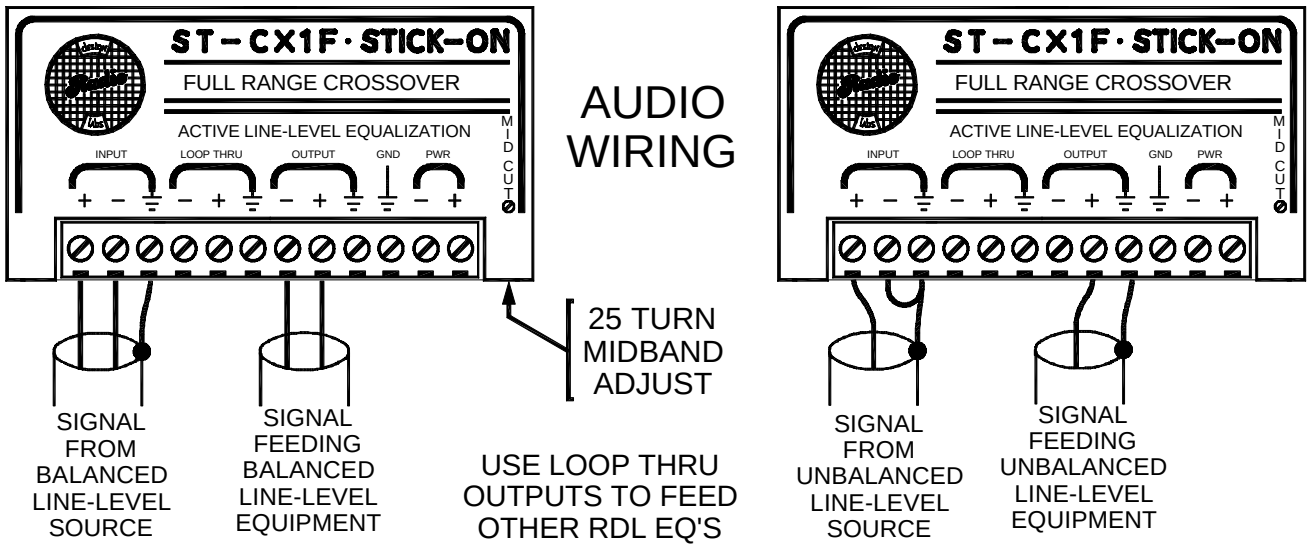
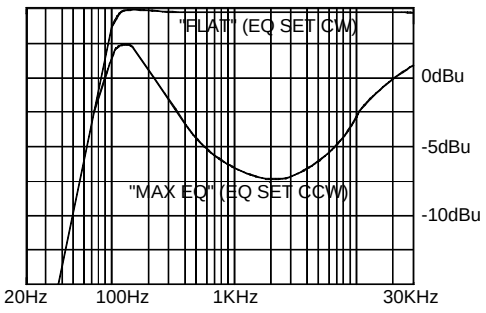
STICK-ON® SERIES

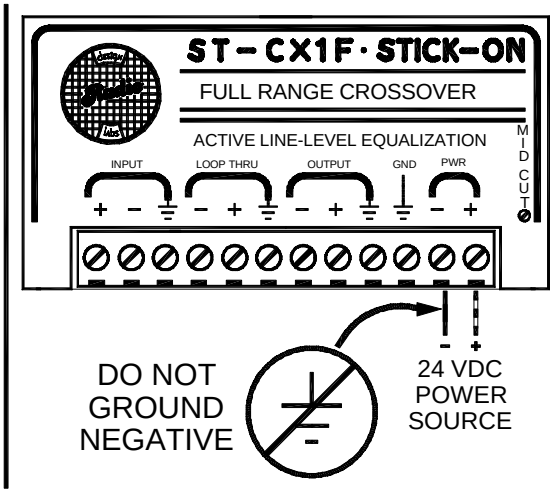
Model ST-CX1F
Full-Range Filter

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.







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 kΩ balanced bridging; accepts balanced or unbalanced signals
Output:	Line level (+4 dBu nominal) @ 150 Ω (to drive high or low impedance balanced or unbalanced line)
Headroom:	> 18 dB
Gain:	Unity (nominal, with equalization set flat)
Frequency Response:	100 Hz to 30 kHz (+/- 0.5 dB)
THD+N:	< 0.075% (100 Hz to 30 kHz)
Residual Noise:	< -80 dB (referred to +4 dBu)
Low Frequency Rolloff:	18 dB/Octave
Power Requirement:	24 to 33 Vdc @ 30 mA, Floating

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