



RDL[®]
Radio Design Labs

SPECIALISTS IN PRACTICAL PRECISION ENGINEERING™

STICK-ON[®] SERIES Models ST-HP1 and ST-HP2 High-Pass Filters

ANYWHERE YOU NEED...

- Horn Loudspeaker Protection
- Low-frequency Attenuation
- Line-Level Input/Output Filter
- Filter with Line Level Loop-Out
- Filtering Requiring No Field Adjustment

You Need The ST-HP1 or ST-HP2!



The ST-HP1 and ST-HP2 are 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-HP1 and ST-HP2 permit permanent or removable mounting. Numerous available mounting accessories, brackets and rack-mount chassis are optionally available to facilitate any system design.

APPLICATION: The ST-HP1 or ST-HP2 is the ideal choice where line-level audio filtering needs to be provided at the input of a power amplifier for protection of public address horns against damage from low frequencies.

The ST-HP1/2 has one input, a loop-out and a filtered output. Both the input and output are balanced, and each may be wired unbalanced if required. The input accepts line-level (+4 dBu nominal) audio, which is fed to the filter circuitry and to the loop-out terminals. The output is filtered according to the attached attenuation curves:

Wherever a public address high-pass filter is needed, the ST-HP1 or ST-HP2 is the ideal choice. Use the ST-HP1 or ST-HP2 combined with other RDL RACK-UP[®], STICK-ON, TX[™], or FLAT-PAK[™] series products as part of a complete audio/video system.

STICK-ON[®] SERIES

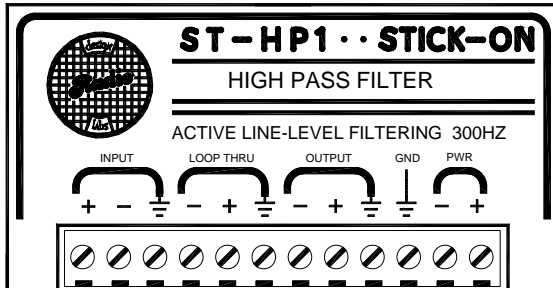
Models ST-HP1 and ST-HP2

High-Pass Filters

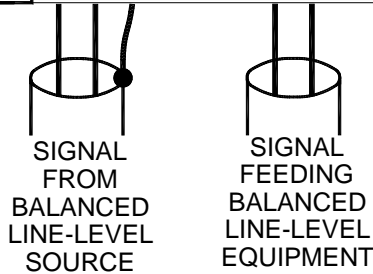
Installation/Operation



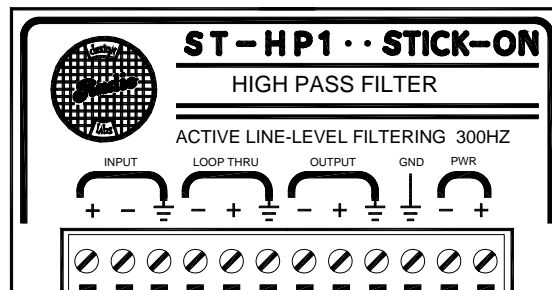
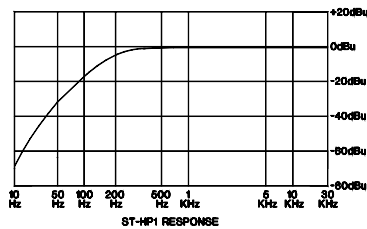
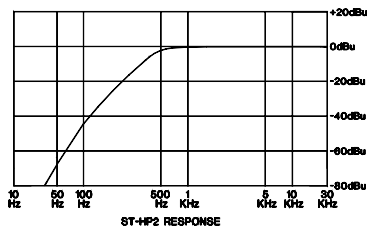
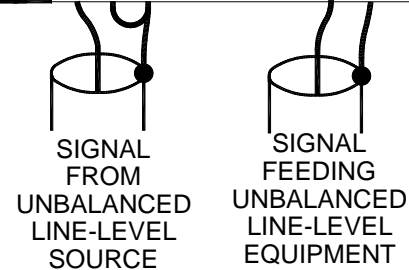
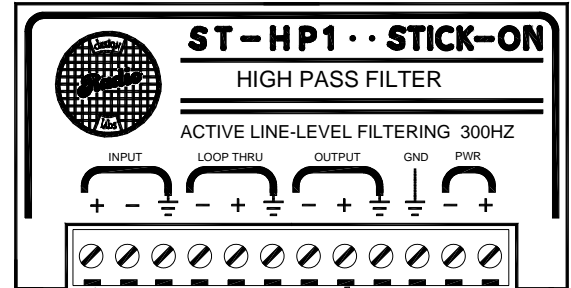
EN55103-1 E1-E5; EN55103-2 E1-E4
Typical Performance reflects product at publication time exclusive of EMC data, if any, supplied with product. Specifications are subject to change without notice.



AUDIO WIRING



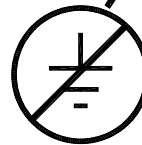
USE LOOP THRU OUTPUTS TO FEED OTHER RDL EQUIPMENT



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.

DO NOT GROUND NEGATIVE



24 VDC POWER SOURCE

TYPICAL PERFORMANCE

ST-HP1 Freq. Response: 350 Hz - 30 kHz (+/- 0.25 dB)
300 Hz - 30 kHz (+/- 0.5 dB)

ST-HP1 -3 dB Frequency: 225 Hz

ST-HP1 Minimum Rolloff: 12 dB/octave

ST-HP2 Freq. Response: 500 Hz - 30 kHz (+/- 1.0 dB)

ST-HP2 -3 dB Frequency: 450 Hz

ST-HP2 Minimum Rolloff: 18 dB/octave

THD+N: < 0.005%

Residual Noise: < -90 dB (below operating level)

Insertion Loss: < 2 dB

Headroom: 18 dB

Power Requirement: 24 to 33 Vdc @ 30 mA, Floating