RDL®
Radio Design Labs

SPECIALISTS IN PRACTICAL PRECISION ENGINEERING™

STICK-ON® SERIES
Model ST-HP3
Dual High-Pass Filters

ANYWHERE YOU NEED...

- Horn Loudspeaker Protection
- Low-Frequency Attenuation below 300 Hz
- Low-Frequency Attenuation below 500 Hz
- Line-Level Input and Outputs
- Filtering Requiring no Field Adjustment
- RDL SupplyFlex™ Power Input Configuration

You Need The ST-HP3!

The ST-HP3 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 unequaled versatility in mounting possibilities. The durable adhesives provided with the ST-HP3 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-HP3 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-HP3 has one input and two filtered outputs: 300 Hz high pass and 500 Hz high pass. Both the input and output are balanced, and each may be wired unbalanced if required. The input accepts line-level (+4 dBu nominal) audio. The module operates at unity gain (balanced input and output).

Each output is filtered through a separate 18 dB per octave low-noise active audio filter. The -3 dB frequency of the 300 Hz output is 225 Hz. The -3 dB frequency of the 500 Hz output is 450 Hz. The two outputs may be used simultaneously.

The ST-HP3 features RDL's SupplyFlex power input configuration for operation directly from ground-referenced, floating or bipolar 24 Vdc power.

Wherever a public address high-pass filter is needed, the ST-HP3 is the ideal choice. Use the ST-HP3 combined 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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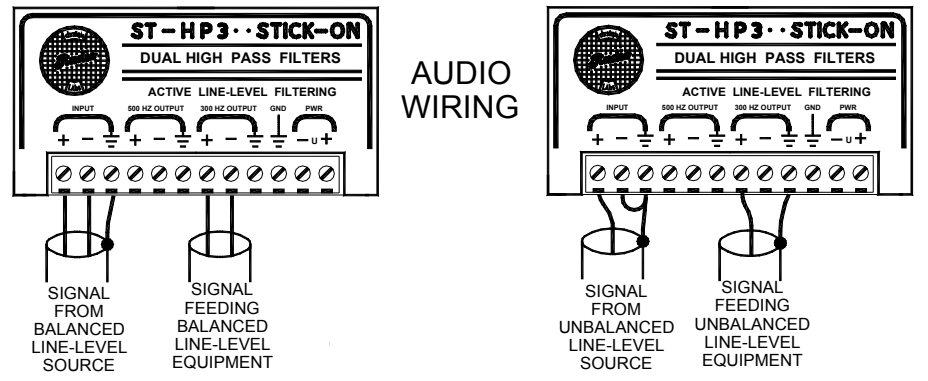
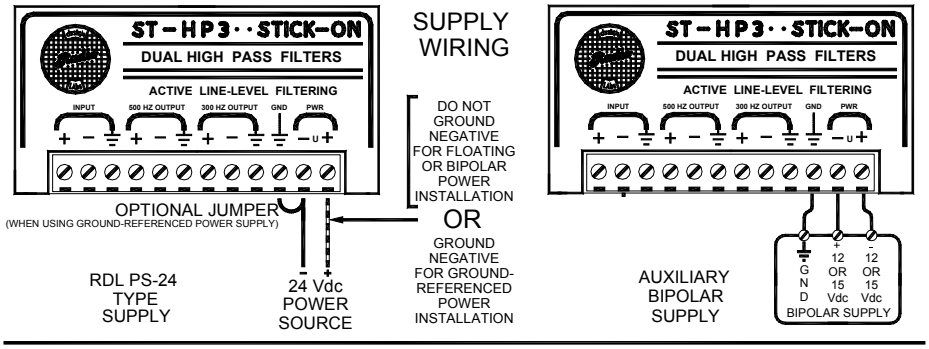
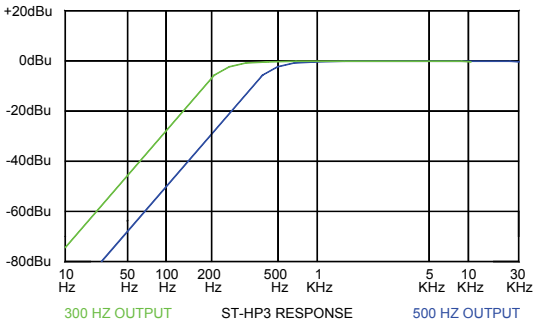
Installation/Operation

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.







TYPICAL PERFORMANCE

Input:	20 kΩ balanced line level (+4 dBu)
Outputs (2):	150 Ω balanced line level (+4 dBu)
Headroom:	> 18 dB
Attenuation Curve:	18 dB/octave
THD+N:	< 0.01%
Residual Noise:	< 90 dB (referred to +4 dBu)
Insertion Loss:	< 2 dB
Headroom:	18 dB

300 Hz Output:

Frequency Response:	300 Hz to 30 kHz (+/- 0.5 dB)
-3 dB Frequency:	225 Hz

500 Hz Output:

Frequency Response:	500 Hz to 30 kHz (+/- 1.0 dB)
-3 dB Frequency:	450 Hz
Power Requirement:	24 to 33 Vdc @ 30 mA

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