



RDL[®]
Radio Design Labs

SPECIALISTS IN PRACTICAL PRECISION ENGINEERING™

STICK-ON[®] SERIES

Model ST-NG1

Random Noise Generator

ANYWHERE YOU NEED...

- True *Random* Noise Source
- Masking Noise Sources
- Pink Noise
- White Noise
- Mic and/or Line Level Noise Signals

You Need The ST-NG1!



The ST-NG1 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-NG1 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-NG1 is the ideal choice where random white or pink noise is needed. It is suitable either as a reference noise source for audio measurements; or as a masking noise source in engineered sound or counter-intelligence applications, particularly where true *random noise* is required.

Amplitude limiting circuitry in the ST-NG1 controls extreme peak excursions while preserving random variations of at least 20 dB. The noise generating circuitry in the ST-NG1 is truly random analog noise occupying the full bandwidth from 20 Hz to 20 kHz. This makes the ST-NG1 ideal in masking environments where secure, random noise is required. Unlike the typical digitally-generated pseudo-random noise generators, which can be decoded and removed by effective intelligence equipment, the ST-NG1 produces no repetitive frequency or amplitude pattern.

Four outputs are available on the ST-NG1. Both a mic-level and line-level output are provided from each noise source. A 25-turn gain-trimming potentiometer is provided for the white noise. A separate 25-turn gain-trimming potentiometer is provided to set the pink-noise level, independent of the white-noise setting. The gain trim for each noise source adjusts both the line and mic output for that source. Each output is balanced low-impedance, and may be wired either balanced or unbalanced. All outputs may be used simultaneously.

Wherever white or pink noise signals are needed, the ST-NG1 is the ideal choice. Use the ST-NG1 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.



STICK-ON[®] SERIES

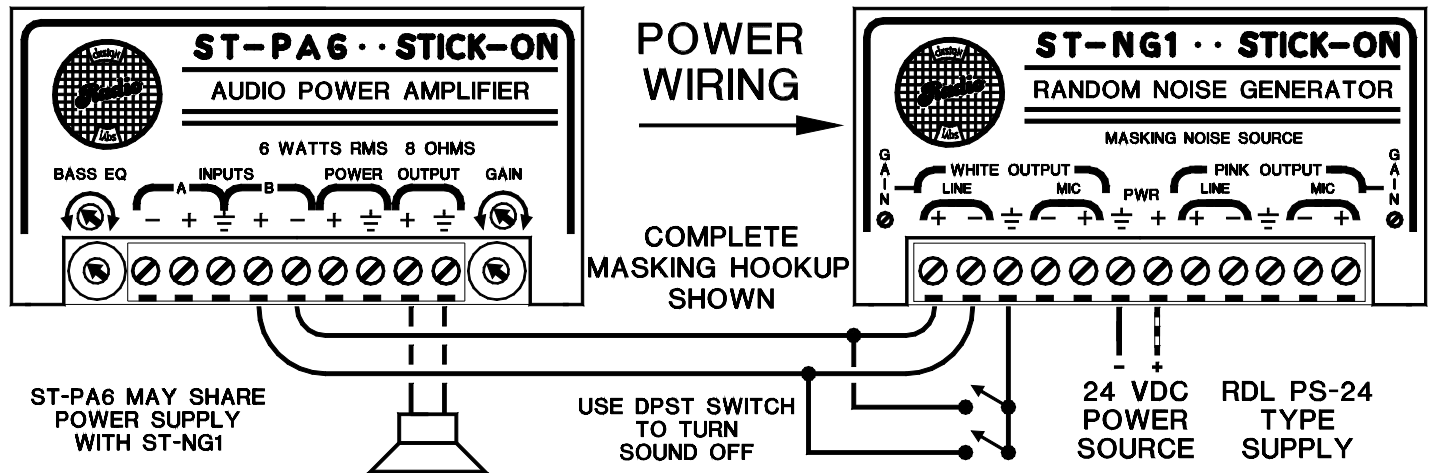
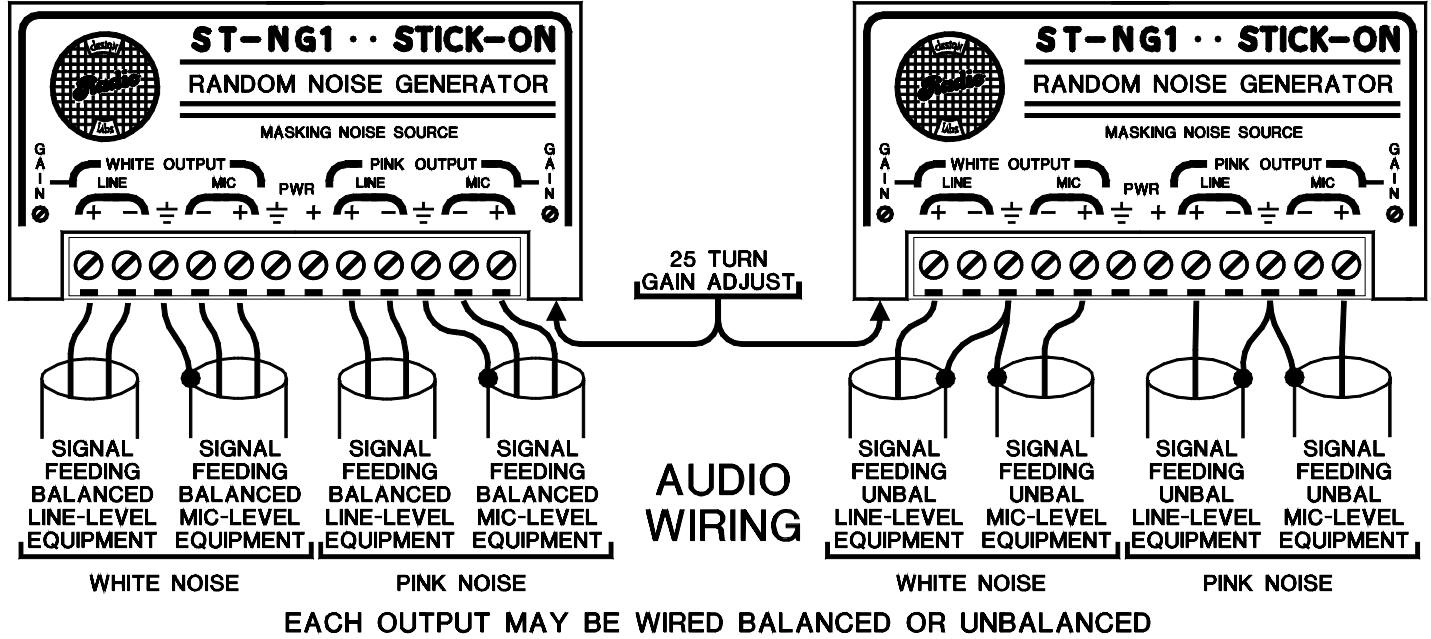
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Installation/Operation



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.



TYPICAL PERFORMANCE

Outputs (4):

| | |
|------------------|----------------------------|
| White Noise (2): | |
| Line Level (1): | +4 dBu (nominal, balanced) |
| Mic Level (1): | -45 dBu (balanced) |
| Pink Noise (2): | |
| Line Level (1): | +4 dBu (nominal, balanced) |
| Mic Level (1): | -45 dBu (balanced) |

Gain:

| | |
|------------------------|-------------------------------|
| Line Level: | Off to +8 dBu (adjustable) |
| Mic Level: | Off to -40 dBu (adjustable) |
| Noise Passband: | 20 Hz to 20 kHz |
| Spectral Distribution: | White and Pink Simultaneously |
| Power Requirement: | 24 to 33 Vdc @ 30 mA |
| Dimensions: | |
| Height: | 1.55 in. 3.94 cm |
| Width: | 3.00 in. 7.62 cm |
| Depth: | 0.65 in. 1.65 cm |