



RDL®
Radio Design Labs

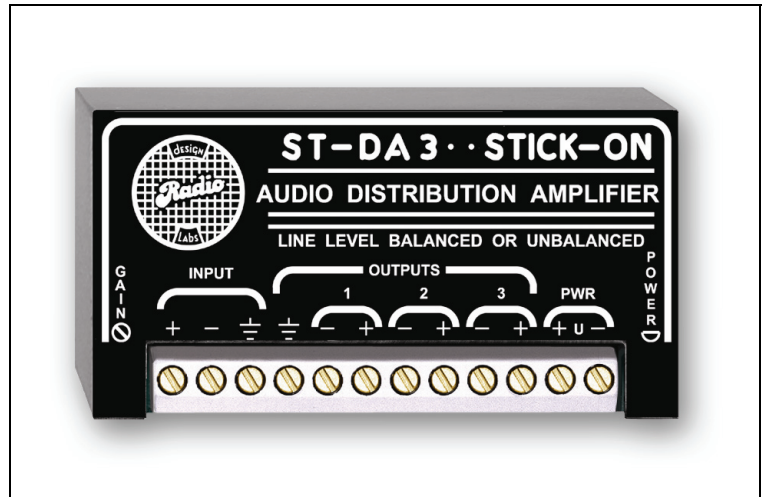
SPECIALISTS IN PRACTICAL PRECISION ENGINEERING™

STICK-ON® SERIES

Model ST-DA3

Distribution Amplifier

- Audio Distribution with Up To 3 Outputs
- Balanced or Unbalanced Input and Outputs
- Bridge an Audio Line for Local Distribution
- Distribution with Impedance Conversion
- Distribution with Gain or Loss
- Inputs and Outputs RF-Protected
- 1x3 Mono or Use Two Units for Stereo
- RDL SupplyFlex™ Power Input Configuration



The ST-DA3 is part of the group of versatile STICK-ON products from Radio Design Labs, featuring the advanced circuitry for which RDL products are known. The durable adhesives provided with the ST-DA3 permit permanent or detachable mounting. Numerous mounting accessories, brackets and rack-mount chassis are optionally available to facilitate any system design. STICK-ONs are designed, built and rated for continuous duty in professional A/V systems.

APPLICATION: The ST-DA3 allows the bridging of any audio line, adjustment of the gain, and driving up to three outputs. Each output is driven by a separate amplifier, and is isolated from both the input and from the other outputs. The circuit design allows the input to accept either balanced or unbalanced signals, of either high or low impedance; and each output may be connected either balanced or unbalanced. The ST-DA3 features wideband circuitry that produces the unsurpassed pure clarity for which RDL products are known. Some features are:

- Functions as an electronic transformer
- Provides isolation, gain, and three outputs
- Wideband amplifiers produce impeccable audio
- Operates from ground-referenced, floating or bipolar power supply
- Ultra-low distortion
- Ultra-low noise
- Excellent phase response
- Gain adjustment 17 dB above or below unity
- Ample headroom at operating level
- Recessed multi-turn audio taper gain trimmer for precise control
- Input and outputs are RF protected
- Full operation in either high or low impedance circuits
- Outputs are short circuit protected
- Positive connections via barrier block

Wherever an audio distribution amplifier is needed, the ST-DA3 is the ideal choice. Use the ST-DA3 individually, or combine it with other RDL products as part of a complete audio/video system.

STICK-ON[®] SERIES

Model ST-DA3

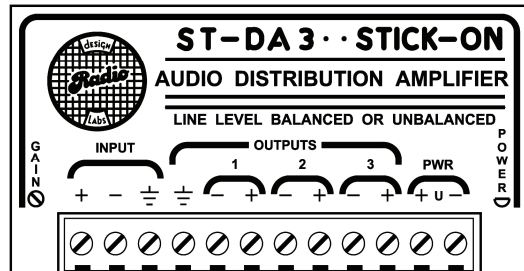
Distribution Amplifier

Installation/Operation

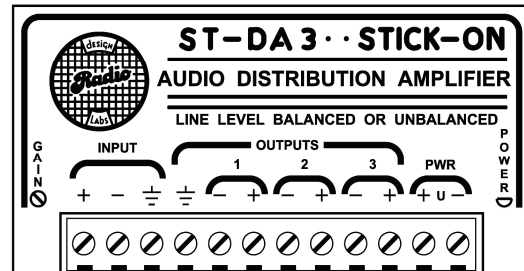


EN55103-1 E1-E5; EN55103-2 E1-E4

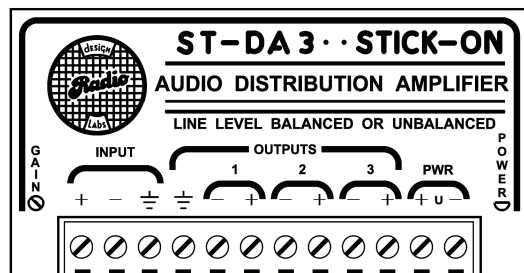
Typical Performance reflects product at publication time exclusive of EMC data, if any, supplied with product. Specifications are subject to change without notice.



AUDIO WIRING



25 TURN
GAIN SET
ADJUSTMENT



SUPPLY WIRING

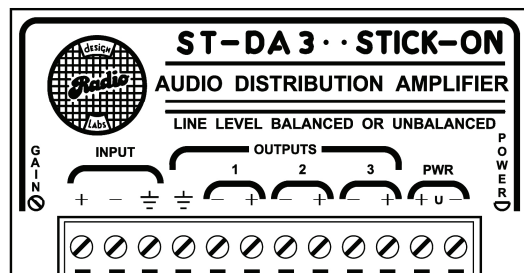
DO NOT
GROUND
NEGATIVE
FOR FLOATING
OR BIPOLAR
POWER
INSTALLATION

OR
GROUND
NEGATIVE
FOR GROUND-
REFERENCED
POWER
INSTALLATION

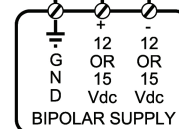
OPTIONAL
JUMPER
(WHEN USING GROUND-REFERENCED POWER SUPPLY)

RDL PS-24
TYPE
SUPPLY

24 Vdc
POWER
SOURCE



AUXILIARY
BIPOLAR
SUPPLY



TYPICAL PERFORMANCE

Input: 20 k Ω balanced or unbalanced
Input Signal: -15 dBV to +21 dBu (for +4 dBu output)
Maximum Input Level: +24 dBu
Outputs (3): 150 Ω balanced or 75 Ω unbalanced
Output Signal:
Balanced: +4 dBu nominal
Unbalanced: 6 dB below balanced line-level
Maximum Output Level: +25 dBu
Frequency Response: 10 Hz to 100 kHz ($\pm$ 0.05 dB)
THD+N: < 0.002% (unity gain)
IMD: < 0.003% (unity gain)

Noise below +4 dBu:
Headroom: < -98 dB (unity gain)
Gain: > 20 dB (above +4 dBu)
CMRR: Unity $\pm$ 17 dB (adjustable)
Indicator: > 60 dB (50 Hz to 120 Hz)
Power Requirement: Red LED power indicator
GROUND-REFERENCED or FLOATING
24 Vdc @ 70 mA
Ambient Operating Environment: 0° C to 55° C
Dimensions:
Width: 3.00 in. 7.62 cm
Depth: 1.55 in. 3.94 cm
Height: 0.65 in. 1.65 cm