



**RDL**<sup>®</sup>  
Radio Design Labs

SPECIALISTS IN PRACTICAL PRECISION ENGINEERING™

## STICK-ON<sup>®</sup> SERIES

### Model ST-DA3

### Distribution Amplifier

#### ANYWHERE YOU NEED...

- Audio Distribution with Up To 3 Outputs
- Balanced or Unbalanced Input and Outputs
- To Bridge a Line for Local Distribution
- Distribution with Impedance Conversion
- Distribution with Gain or Loss
- Ground-referenced or Floating Power



#### *You Need The ST-DA3!*

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.

**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 combined with other RDL RACK-UP<sup>®</sup>, STICK-ON, TX<sup>™</sup>, or FLAT-PAK<sup>™</sup>, RCX<sup>™</sup> series products as part of a complete audio/video system.

# STICK-ON<sup>®</sup> SERIES

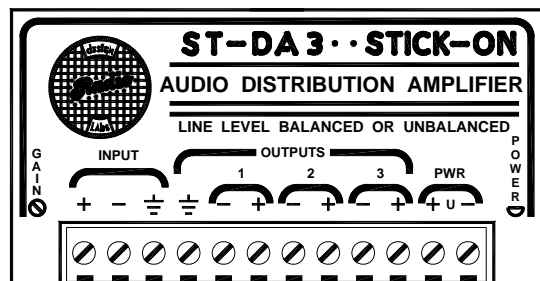
## Model ST-DA3

### Distribution Amplifier

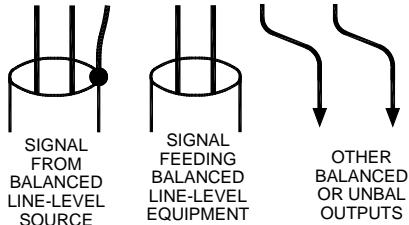
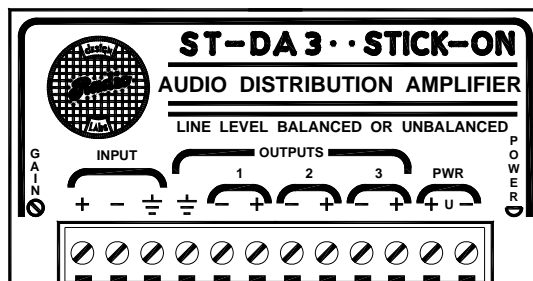
## Installation/Operation



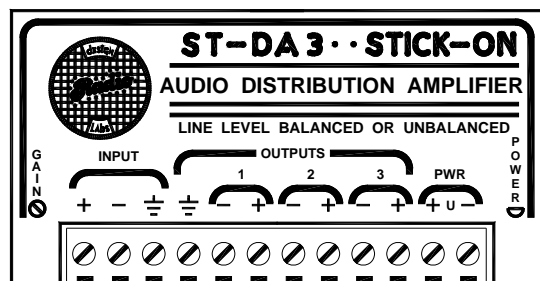
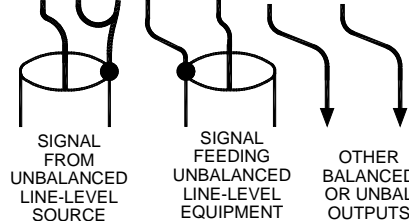
EN55103-1 E1-E5; EN55103-2 E1-E4  
Typical Performance reflects product at publication time exclusive of EMC data, if any, supplied with product. Specifications are subject to change without notice.



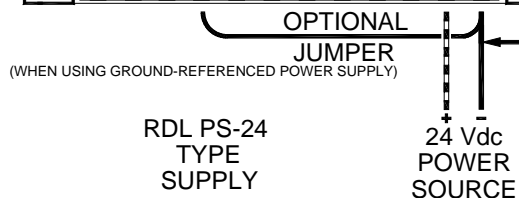
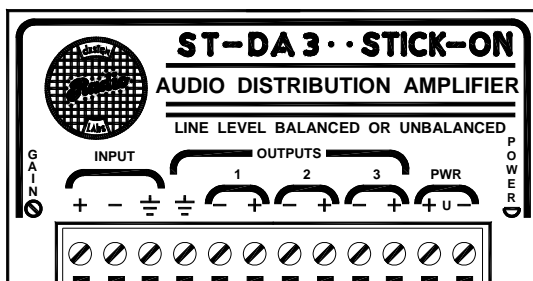
### AUDIO WIRING



25 TURN  
GAIN SET  
ADJUSTMENT



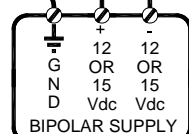
### SUPPLY WIRING



DO NOT  
GROUND  
NEGATIVE  
FOR FLOATING  
OR BIPOLAR  
POWER  
INSTALLATION

OR  
GROUND  
NEGATIVE  
FOR GROUND-  
REFERENCED  
POWER  
INSTALLATION

AUXILIARY  
BIPOLAR  
SUPPLY



### TYPICAL PERFORMANCE

Input:	20 k $\Omega$ balanced or unbalanced
Input Signal:	-15 dBV to +21 dBu (for +4 dBu output)
Maximum Input Level:	+24 dBu
Outputs (3):	150 $\Omega$ balanced or 75 $\Omega$ 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 (+/- 0.05 dB)
THD+N:	< 0.002% (unity gain)
Noise below +4 dBu:	< -98 dB (unity gain)

Headroom:	> 20 dB (above +4 dBu)
IMD:	< 0.003% (unity gain)
Gain:	Unity +/- 17 dB (adjustable)
CMRR:	> 60 dB (50 Hz to 120 Hz)
Indicator:	Red LED power indicator
Power Requirement:	24 to 33 Vdc @ 70 mA, Ground-referenced or Floating
Dimensions:	Width: 3.00 in. 7.62 cm Depth: 1.55 in. 3.94 cm Height: 0.65 in. 1.65 cm