



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

SPECIALISTS IN PRACTICAL PRECISION ENGINEERING™

## STICK-ON<sup>®</sup> SERIES

### Model ST-MXL3

### Line to Mic Mixer

#### ANYWHERE YOU NEED...

- Line Level Input Mixing
- Balanced or Unbalanced Inputs and Output
- To Bring Line Signals into a Mic Input
- To Combine Signals of Different Level, Impedance or Configuration



#### ***You Need The ST-MXL3!***

The ST-MXL3 is part of the mixer group of products in the STICK-ON series from Radio Design Labs. The durable adhesive, provided with the ST-MXL3, permits quick, permanent or removable mounting nearly anywhere, or it may be used with RDL's racking accessories. The ST-MXL3 gives you the advantages of a high performance audio mixer with a big PLUS...you can put them right where you need them!

**APPLICATION:** The ST-MXL3 is a three-channel audio mixer used for combining three line level signals to a single microphone level output. Each input features a separate preamplifier circuit, which isolates it from the other inputs. Individual level controls are provided for each input. Signals from each of the three input stages are actively summed and fed to the output microphone-level driver amplifier.

The line input circuit design allows the inputs to accept either balanced or unbalanced signals, of either high or low impedance. The mic output is low-impedance, balanced, and can feed either low or high-impedance circuits. The ST-MXL3 features the direct-coupled amplifier circuitry, which produces the unsurpassed, pure clarity for which RDL products are known! Some features are:

- Ultra-Low Distortion
- Ultra-Low Noise
- Individually Adjustable Input Levels
- Ample Headroom
- Full Operation in either High or Low Impedance Circuits
- Positive Connections via Barrier Block; No Audio Connectors to Wire.

Wherever a line to mic mixer is needed, the ST-MXL3 is the ideal choice. Use the ST-MXL3 combined with other RDL RACK-UP<sup>®</sup>, STICK-ON, TX<sup>™</sup>, or FLAT-PAK<sup>™</sup> series products as part of a complete audio/video system.

# STICK-ON<sup>®</sup> SERIES

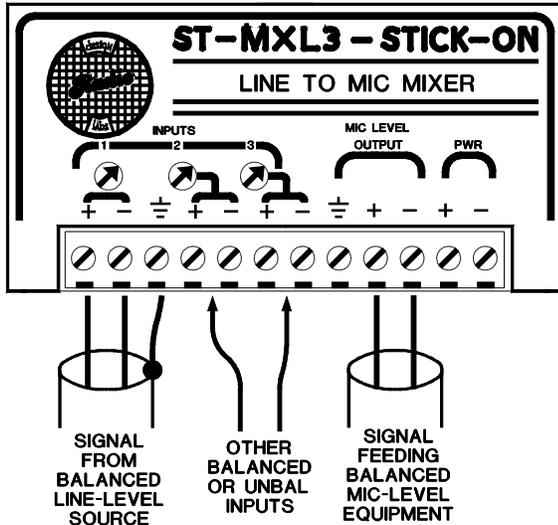
## Model ST-MXL3

### Line to Mic Mixer

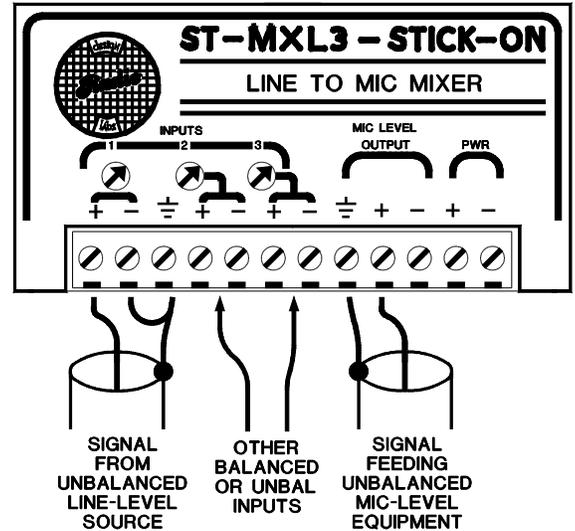
## Installation/Operation



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.

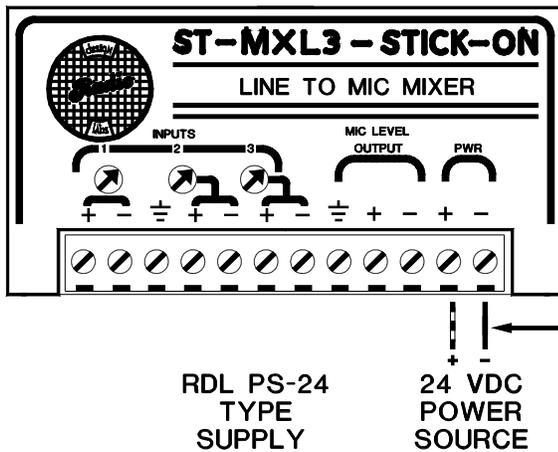


AUDIO WIRING

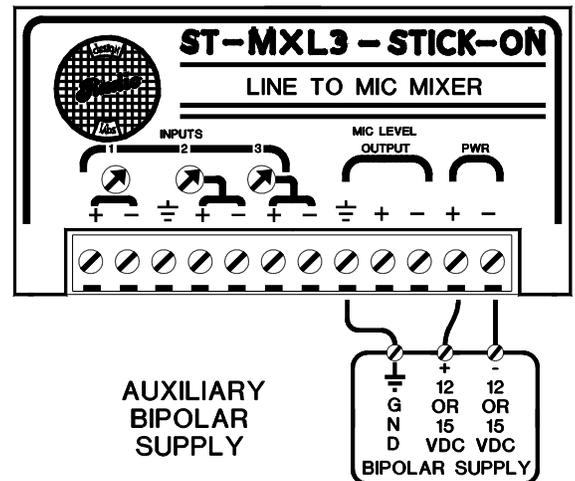


ADJUST LEVELS

NOTE: EACH INPUT / OUTPUT MAY BE BALANCED OR UNBALANCED



SUPPLY WIRING



AUXILIARY BIPOLAR SUPPLY

#### TYPICAL PERFORMANCE

Inputs: 3 @ 30 kΩ balanced or unbalanced bridging  
Input Signal Range: -20 dBu to +18 dBu (for -50 dBu output)  
Output Impedance: 150 Ω balanced to drive high or low impedance lines  
Frequency Response: 10 Hz to 20 kHz (+/- 0.5 dB)  
THD+N: < 0.030%  
CMRR: > 50 dB

Noise: < -80 dB (below -50 dBu output level)  
Headroom: > 18 dB  
Supply Input: 24 to 33Vdc @ 55 mA, Floating  
Note: Power supply must not be grounded  
Dimensions: Height: 1.55 in. 3.94 cm  
Width: 3.00 in. 7.62 cm  
Depth: 0.65 in. 1.65 cm