

# STICK-ON® SERIES Model ST-LMX3 Mic and Line to Line Mixer

### ANYWHERE YOU NEED...

- Mic and Line Audio Mixing
- Balanced or Unbalanced Inputs and Output
- To Add Additional Inputs to Existing Mixer
- To Combine Signals of Different Level, Impedance, or Bal. /Unbal. Configuration
- Expandable Add-On Mixing System



### You Need The ST-LMX3!

The ST-LMX3 is part of a group of products in the Stick-On series from Radio Design Labs. The durable bottom adhesive permits quick, permanent mounting nearly anywhere or it may be used with RDL's racking accessories. The ST-LMX3 gives you the advantages of a combination line/mic audio mixer with the added convenience of Stick-Ons!

The ST-LMX3 is a 3-channel utility audio mixer for combining one or two mic-level signals with a line-level signal, all to a single line-level output.

**APPLICATION:** Individual level control is provided for each input. Each input features a separate preamplifier circuit, which isolates it from the other inputs. Signals from the three preamps are actively summed and fed to the output line-level driver amplifier. The line-input circuit allows the input to accept either a balanced or unbalanced signal, of either high or low impedance. The mic-input circuit design allows the inputs to accept either balanced low-impedance mics or high-impedance unbalanced mics. The output is capable of driving into either high or low impedance, balanced or unbalanced loads. Each output may be connected in parallel with ST-MX3s or ST-MMX3s to form a multi-channel mixer to fit nearly any installation! The ST-LMX3 features direct coupled amplifier circuitry, which produces the unsurpassed pure clarity for which Radio Design Labs products are known! Some features are:

- Ultra-low distortion
- Ultra-low noise
- Input levels individually adjustable
- Ample headroom at operating level
- Full operation in either high or low impedance circuits
- Outputs short-circuit protected
- Positive connections via barrier block no audio connectors to wire

Anywhere you need a small, simple, quality mic and line input utility mixer, the ST-LMX3 is the cost-effective solution!



## STICK-ON® SERIES

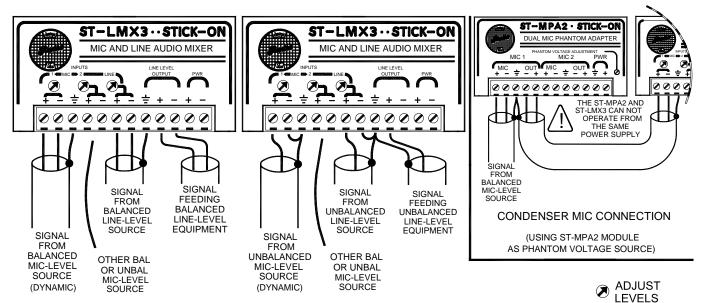
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## **Installation/Operation**

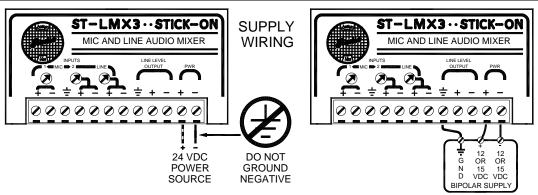


EN55103-1 E1-E5; EN55103-2 E1-E4

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



### EACH INPUT OR OUTPUT MAY BE BALANCED OR UNBALANCED



#### TYPICAL PERFORMANCE

Inputs (3):

Liné Level (1):  $\,> 30~\mathrm{k}\Omega$  balanced or unbalanced bridge Mic Level (2):  $\,200~\Omega$  balanced;  $5~\mathrm{k}\Omega$  unbalanced NOTE: MIC INPUT ON ST-LMX3 IS NOT PROTECTED AGAINST PHANTOM VOLTAGE. IF CONDENSER MICS ARE TO BE USED, USE RDL's ST-MPA2 PHANTOM ADAPTER

Input Signal:

Line: -20 dBu to +18 dBu (for +4 dBu output)

THD+N:

Line: < 0.030% ( +4 dBu 10 Hz to 20 kHz)
Mic: < 0.200% (typical 0.1% 10 Hz to 10 kHz)

Freq. Response: Line:

Mic: Headroom: Gain:

Line: Mic: CMRR:

Line: Mic: Noise Below +4dBu:

Multiple Module System Loss: Power: 10 Hz to 20 kHz (+/- 0.50 dB) 10 Hz to 18 kHz (+/- 1 dB) 18 dB (above +4 dBu)

-14 dB to +24 dB (adjustable) 30 dB to 70 dB (adjustable)

> 50 dB (60 or 120 Hz) > 55 dB (60 or 120 Hz)

30 dB (line inputs @ unity gain; mic input
50 dB gain; inputs unterminated)
60 dB (line inputs @ unity gain; mic input

50 dB gain; inputs 500  $\Omega$  terminated) 6 dB with two module outputs paralleled 10 dB with three module outputs paralleled 12 dB with four module outputs paralleled

24 to 33 Vdc @ 55 mA, Floating