



RDL® Radio Design Labs®

SPECIALISTS IN PRACTICAL PRECISION ENGINEERING™

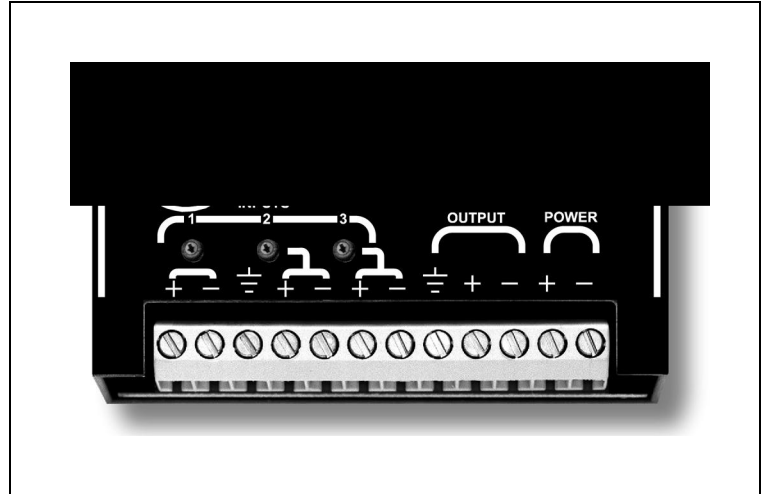
STICK-ON® SERIES

Model ST-MMX3

Mic to Line Level Mixer

ANYWHERE YOU NEED...

- Audio Mixing with Up To Three Inputs
- Balanced or Unbalanced Inputs & Outputs
- To Add Additional Microphone Inputs to an Existing Line Level Mixer
- To Combine Signals of Different Level, Impedance, or Bal. /Unbal. Configuration
- Low Noise and Low Distortion Performance



You Need The ST-MMX3!

The ST-MMX3 is part of a group of products in the STICK-ON series from Radio Design Labs. The durable bottom adhesive permits quick, permanent or removable mounting nearly anywhere or it may be used with RDL's racking accessories. The ST-MMX3 gives you the advantage of a high performance audio mixer with a big PLUS, you can put it where you need it, and you can combine modules to build larger mixing systems using whatever combination you need!

APPLICATION: The ST-MMX3 is a three-channel audio mixer for combining mic-level signals to a line-level output. Individual level control is provided for each input. Each input features a separate preamplifier circuit, which isolates it from the other inputs. A trimpot gain adjustment is provided for each of the three input preamps. Signals from the three preamps are actively summed and fed to the output line-level driver amplifier. The mic-level circuit design of the ST-MMX3 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 other ST-MMX3s, ST-MX3s, or ST-MLX3s to form a multi-channel mixer to fit nearly any installation! The ST-MMX3 features dc amplifier circuitry, which produces the unsurpassed pure clarity for which Radio Design Labs products are known! Some features are:

- Ultra-low Distortion and 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

Wherever a microphone level mixing amplifier is needed, the ST-MMX3 is the ideal choice. Use the ST-MMX3 combined with other RDL RACK-UP®, STICK-ON, TX™, or FLAT-PAK™ series products as part of a complete audio/video system.



STICK-ON® SERIES

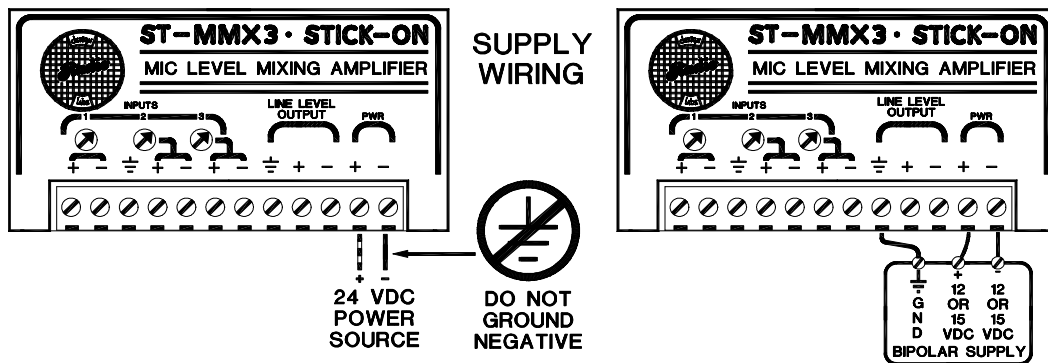
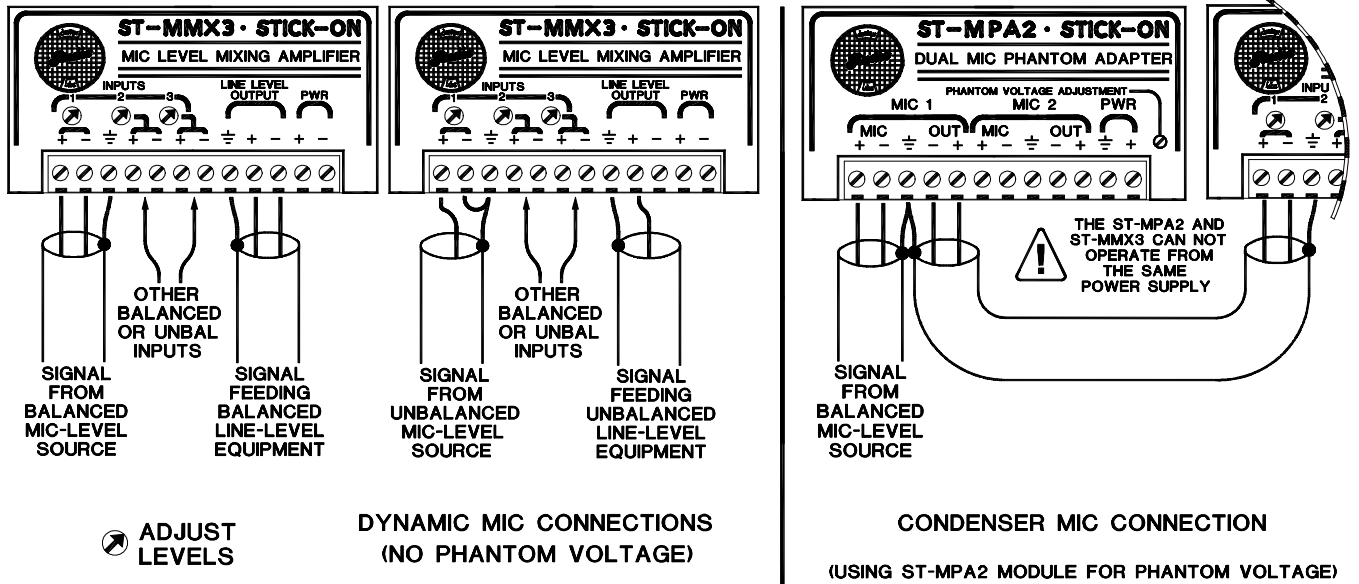
Model ST-MMX3 Mic to Line Level Mixer

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



TYPICAL PERFORMANCE

Inputs:	3 @ 600 Ω balanced; 5 kΩ unbalanced	Frequency Response:	+/- 1 dB 1 Hz to 18 kHz
NOTE:	MIC INPUTS ON ST-MMX3 ARE NOT PROTECTED AGAINST PHANTOM VOLTAGE. USE THE ST-MPA2 Microphone Phantom Adapter.	Noise below +4 dBu:	< -60 dB (all inputs @ 45 dB gain, no termination) < -65 dB (below 0 dBu output, inputs @ 45 dB gain)
Input Signal:	-66 dBu to -26 dBu (for +4 dBu output) -70 dBu to -30 dBu (for 0 dBu output)	Headroom:	22 dB
Output:	400 Ω to drive low or high impedance balanced or unbalanced lines	Gain (each input):	Adjustable from -70 dB to -30 dB
Output Signal:	+4 dBu nominal, adjustable unbalanced output 6 dB below balanced line level	CMRR:	> 55 dB at 60 to 120 Hz
THD+N:	< 0.200% typical 0.100% (10 Hz to 10 kHz)	Multiple Module System Loss:	6 dB with two module outputs paralleled 10 dB with three module outputs paralleled 12 dB with four module outputs paralleled
		Supply Input:	24 to 33 Vdc @ 55 mA, Floating

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