STICK-ON® SERIES
Model STM-2
Mic to Line Level Preamplifier

ANYWHERE YOU NEED...

- Low-Noise Mic Preamp
- Adjustable Output Levels
- High or Low Impedance Mic Inputs
- To Convert Line Inputs to Mic Inputs
- Two Balanced or Unbalanced Outputs
- Separate Phantom Supply Input
- RF Filtered Inputs and Outputs
- Low Distortion Performance

You Need The STM-2!

The STM-2 is part of the group of STICK-ON products from Radio Design Labs. The STM-2 is a quality microphone preamplifier designed for use in commercial sound, broadcast, and recording applications. The STM-2 is very flexible with gain adjustment from 0 to 65 dB, two balanced or unbalanced outputs, and available phantom supply input! Its compact size makes it ideally suited to locations were a larger or heavier preamp cannot be used. Its performance makes it the best choice, even when larger preamps could be used! The single-ended supply input makes STM-2 the ideal choice for both permanent and mobile equipment installations. Some features of the STM-2 are:

- Balanced microphone input accepts impedances from 150 to 600 Ω
- Input circuitry permits connection of unbalanced microphones, or 4 or 8 Ω speakers in intercom or monitoring applications
- Variable gain (up to 65 dB) and ample headroom allow operation with any mic
- Phantom supply input terminals allow connection of external power when STM-2 is used with phantom powered microphones
- Supply input is single-ended and operates from 24 Vdc to 33 Vdc (12 Vdc at reduced headroom)
- Two separate outputs are provided for balanced operation
- No lugs required for reliable connections
- Convenience of STICK-ON package yields quick, efficient installation
- Use STM-2 in conjunction with other RDL STICK-ONs to make complete audio systems

Anywhere you need an adjustable Mic to Line preamplifier, STM-2 is the reliable and cost-effective solution!
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ALTERNATE INPUTS

SIGNAL FROM UNBALANCED MIC-LEVEL SOURCE

SPEAKER USED AS MIC

EACH OUTPUT MAY BE BALANCED OR UNBALANCED

AUDIO WIRING

25 TURN GAIN ADJUST

SIGNAL FROM BALANCED MIC-LEVEL SOURCE

SIGNAL FEEDING BALANCED LINE-LEVEL EQUIPMENT

SIGNAL FEEDING UNBALANCED LINE-LEVEL EQUIPMENT

PWR OUTPUTS

PROFESSIONAL ADJUSTABLE INPUT PHANTM MICROPHONE PREAMPLIFIER

PHNTM INPUT

PROFESSIONAL ADJUSTABLE OUTPUTS

PHNTM INPUT

NOTE: THE STM-2 WILL OPERATE (WITH REDUCED HEADROOM) ON SUPPLY VOLTAGES FROM 9 VDC TO 23 VDC.

TYPICAL PERFORMANCE

Input Impedance: 150 to 600 Ω balanced; 5 kΩ unbalanced

Output Impedance: 150 Ω balanced to drive balanced or unbalanced lines of 150 Ω or higher

Output Levels: +4 dBu balanced

Frequency Response: 50 Hz to 25 kHz (+/- 1 dB)

Gain: Adjustable 0 to 65 dB

THD+N: < 0.050%

CMRR: > 60 dB (50 Hz to 30 kHz)

Headroom: > 20 dB (24 Vdc supply); 14 dB (12 Vdc supply)

Power Requirement: 24 to 33 Vdc @ 25 mA, Ground-referenced

(9 to 23 Vdc with reduced headroom)