

# **STICK-ON® SERIES** Model STM-LDA3 Studio Quality Mic Preamp with Distributed Outputs

## ANYWHERE YOU NEED...

- Studio-Quality Mic Preamplification
- Three Distributed Line-Level Outputs
- Ultra Low Noise
- Ultra Low Distortion
- Selectable Filtered Phantom Voltage
- Adjustable Gain up to 60 dB
- Versatility of STICK-ON Compactness
- RDL's Exclusive Dual-LED VU Metering

### You Need STM-LDA3!

The STM-LDA3 is part of the group of versatile STICK-ON products from Radio Design Labs. STICK-ONs feature the advanced circuitry for which RDL products are known, combined with unequalled versatility in mounting possibilities. The durable adhesives provided with the STM-LDA3 permit permanent or removable mounting. Numerous available mounting accessories, brackets and rack-mount chassis are optionally available to facilitate any system design.

**APPLICATION:** The STM-LDA3 is designed for use in quality commercial sound, broadcast and recording applications. The 1200  $\Omega$  balanced input accepts a wide variety of microphone input levels without loading professional low-impedance microphones. A multi-turn gain trimmer allows precise output level adjustment. The output signal is available on three separate balanced line-level outputs. Each output may be connected balanced or unbalanced.

RDL's exclusive low-noise discrete preamplifier circuitry produces studio-quality low-noise performance in an economical preamplifier. Dynamic or condenser microphones may be used with the STM-LDA3. Standard 24V phantom is supplied to the input when the supply voltage is connected to the **PHM** terminal. Optimum operating level is set using RDL's unique Dual-LED VU meter, located adjacent to the terminal block. A green LED illuminates at 15 dB below a +4 dBu output. The intensity of the green LED progresses from minimum to full intensity at +4 dBu. The adjacent red LED illuminates when the operating level exceeds +4. This makes the STM-LDA3 easy to set up without any external test equipment and operating levels may be monitored at the module.

Wherever a mic to line level distribution amplifier or studio quality microphone preamplifier is needed, the STM-LDA3 is the ideal choice. Use the STM-LDA3 individually, or combine it with other RDL products as part of a complete audio/video system.





SPECIALISTS IN PRACTICAL PRECISION ENGINEERING™

#### STICK-ON<sup>®</sup> SERIES Installation/Operation **Model STM-LDA3** EN55103-1 E1-E5; EN55103-2 E1-E4 Typical Performance reflects product at publication time exclusive of EMC data, if any, supplied with product. **Studio Quality Mic Preamp** Specifications are subject to change without notice. with Distributed Outputs STM-LDA3·STICK-ON STM-LDA3.STICK-ON AUDIO STUDIO QUALITY PREAMPLIFIER MIC INPUT 3 LINE OUTPUTS STUDIO QUALITY PREAMPLIFIER MIC INPUT 3 LINE OUTPUTS WIRING . + + + ++ ø + ÷ + e 000000000000 Ø 000000000000 Ø 25 TURN GAIN SET ADJUSTMENT SIGNAI SIGNAL SIGNAL SIGNAL OTHER FEEDING OTHER FEEDING FROM FROM BALANCED UNBALANCED MIC-LEVEL SOURCE UNBALANCED LINE LEVEL EQUIPMENT BALANCED BAI ANCED I INE I EVEI OR UNBAL OUTPUTS OR UNBAL MIC-LEVEL EQUIPMENT OUTPUTS SOURCE STM-LDA3·STICK-ON STM-LDA3.STICK-ON SUPPLY STUDIO QUALITY PREAMPLIFIER MIC INPUT 3 LINE OUTPUTS STUDIO QUALITY PREAMPLIFIER MIC INPUT 3 LINE OUTPUTS WIRING OUTPUTS ۵ ~ **``** <u>יר</u>ר 11 Ť "-+"++ + + + + = + ÷ + + Ø 00000000000000 0000000000000 OPTIONAL JUMPER TO PROVIDE PHANTOM POWER TO CONDENSER MICROPHONES (24 VDC PHANTOM) RDL PS-24 24 VDC TYPICAL POWER 24 VDC TYPICAL PHANTOM TYPE POWER CONNECTION POWER CONNECTION SUPPLY SOURCE SOURCE

#### **TYPICAL PERFORMANCE**

Input: Outputs (3): Gain: Frequency Response: THD + N: IMD: Noise:

Equivalent Input Noise: Headroom: CMRR: Power Requirement: 1200 Ω balanced +4 dBu, 150 Ω balanced 40 to 60 dB (25 turn trimmer adjustable) 30 Hz to 20 kHz (+/- 0.2 dB) < 0.1% < -70 dB (below +4 dBu @ 60 dB gain – wideband) < -80 dB (below +4 dBu @ 50 dB gain – wideband) < -130 dB (gain + residual noise below +4 dBu) > 20 dB (above +4 dBu) > 60 dB (100 Hz to 5 kHz) 24 - 33 Vdc @ 40 mA, Ground-referenced