



RDL®
Radio Design Labs

SPECIALISTS IN PRACTICAL PRECISION ENGINEERING™

STICK-ON® SERIES

Model ST-PA2

Utility Power Amplifier

- Up to 2 Watts RMS into 8 Ω
- Up to +12 dBu into 600 Ω
- Quality Utility Amplifier
- Intercom Driver
- Music-On-Hold Driver



The ST-PA2 is a utility power amplifier in the convenient line of STICK-ON products 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-PA2 gives you the advantages of a utility amplifier with the added convenience of STICK-ONS! STICK-ONS are designed, built and rated for continuous duty in professional A/V systems.

APPLICATION: The ST-PA2 features a single, unbalanced audio input, a gain control, and two outputs. The first output is designed to deliver a clean 2 Watts RMS into an 8 Ω speaker. The second output is intended to drive 600 Ω transformers, typically on equipment inputs. This makes the ST-PA2 uniquely suited applications such as music-on-hold inputs on telephone systems, which may have either 8 Ω or 600 Ω inputs. If desired, both outputs may be used at the same time. The output stage includes automatic circuitry to protect the unit from potential damage due to output over-current, overheating or a short-circuit.

The convenience and low cost of the ST-PA2 make it the ultimate choice as a building block in many systems, from simple to complex. It may be used in combination with other STICK-ONS to form custom intercoms or talk-back systems, or can be used by itself to drive a single speaker with music or voice. For either straightforward or creative applications requiring a utility power amplifier, the ST-PA2 is the optimum choice!

Note: The ST-PA2 is not intended to drive long 600 Ω audio lines or multiple equipment inputs. For these applications, see the STA-2A (stereo), the STA-1 (stereo), the STA-1M (mono), or the ST-DA3 (distributed). If balanced audio input is required, see the ST-PA6 audio power amplifier.

Wherever an audio amplifier is needed, the ST-PA2 is the ideal choice. Use the ST-PA2 individually, or combine it with other RDL products as part of a complete audio/video system.

STICK-ON[®] SERIES

Model ST-PA2

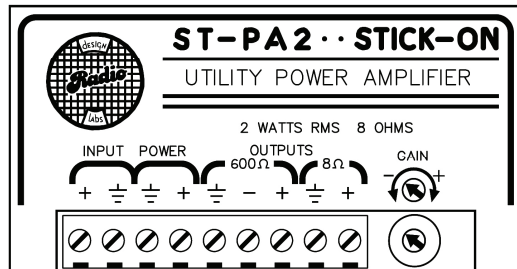
Utility Power Amplifier

Installation/Operation



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

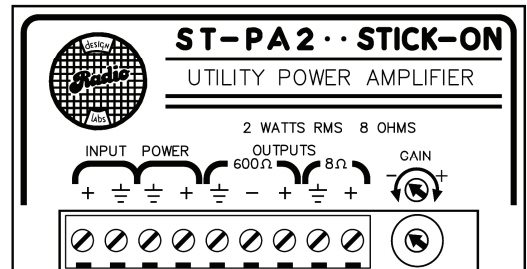
Typical Performance reflects product at publication time exclusive of EMC data, if any, supplied with product. Specifications are subject to change without notice.



SIGNAL FROM UNBALANCED LINE-LEVEL SOURCE

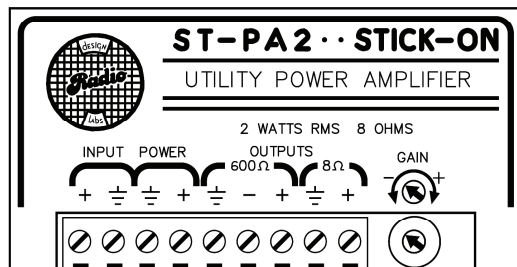
ADJUST LEVELS

AUDIO WIRING



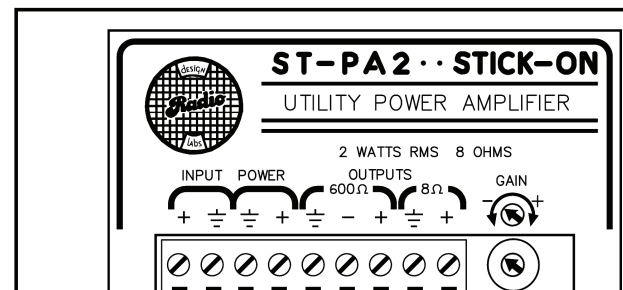
THE 600 OHM OUTPUT IS NOT INTENDED AS A LONG LINE DRIVER. USE OTHER RDL PRODUCTS SUCH AS THE STA-2A, STA-1, STA-1M OR THE ST-DA3.

SIGNAL FEEDING BALANCED LINE-LEVEL EQUIPMENT



DO NOT USE SHIELDED WIRE ON OUTPUT

8 OHM SPEAKER (AMPLIFIER OPERATES SAFELY INTO LOADS FROM 4 OHMS TO 50 OHMS)



THIS TERMINAL IS COMMON GROUND

24 VDC POWER SOURCE

POWER WIRING

TYPICAL PERFORMANCE

Input:

Input Level:

Frequency Response:

THD+N:

Noise:

Outputs (2):

Ambient Operating Environment:

Power:

Unbalanced 10 kΩ

-15 dBV minimum (for rated power output)

-20 dBV minimum (for 1 watt RMS into 8 Ω)

35 Hz to 30 kHz (8 Ω ± 1.5 dB)

20 Hz to 30 kHz (600 Ω ± 0.5 dB)

< 0.75% (0.5 % typical)

< -80 dB (8 Ω @ 2 W RMS)

< -70 dB (600 Ω, referred to +4 dBu)

1 @ 8 Ω, 2 watts RMS maximum

1 @ 600 Ω, +12 dBu maximum

0° C to 40° C

GROUND-REFERENCED, 24 Vdc @ 250 mA

Radio Design Labs Technical Support Centers

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