



**RDL**<sup>®</sup>  
Radio Design Labs

SPECIALISTS IN PRACTICAL PRECISION ENGINEERING™

## STICK-ON<sup>®</sup> SERIES

### Model ST-PA2

### Utility Power Amplifier

#### ANYWHERE YOU NEED...

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

#### *You Need The ST-PA2!*



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!

**APPLICATION:** The ST-PA2 represents the second-generation in RDL's breakthrough in the traditional power vs. size ratio. Present technology permits features and performance at the most economical cost ever. The ST-PA2 offers 2 Watts of power, twice the power of most utility amplifiers, for a price you would expect to pay for 1 Watt!

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  $\Omega$  speaker. The second output is intended to drive 600  $\Omega$  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  $\Omega$  or 600  $\Omega$  inputs. If desired, both outputs may be used at the same time.

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  $\Omega$  audio lines or multiple equipment inputs. For these applications, see 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 combined with other RDL RACK-UP<sup>®</sup>, STICK-ON, TX<sup>™</sup>, or FLAT-PAK<sup>™</sup> series products as part of a complete audio/video system.

# STICK-ON<sup>®</sup> SERIES

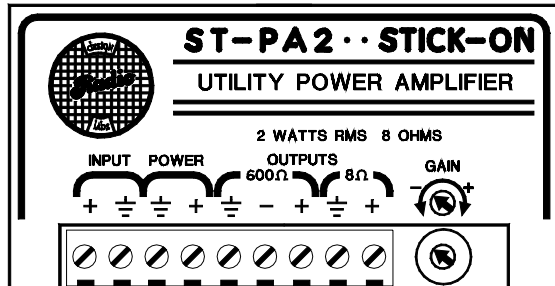
## Model ST-PA2

### Utility Power Amplifier

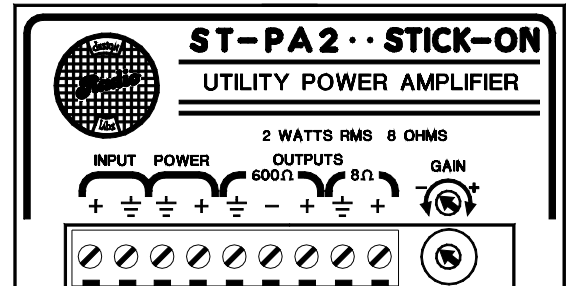
## Installation/Operation



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.

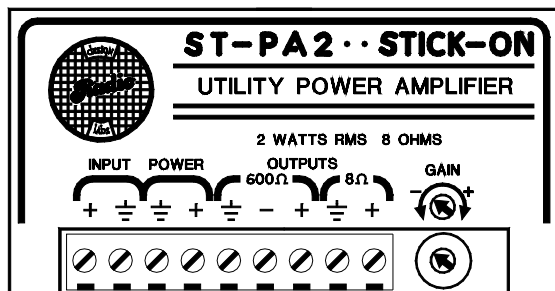


### AUDIO WIRING



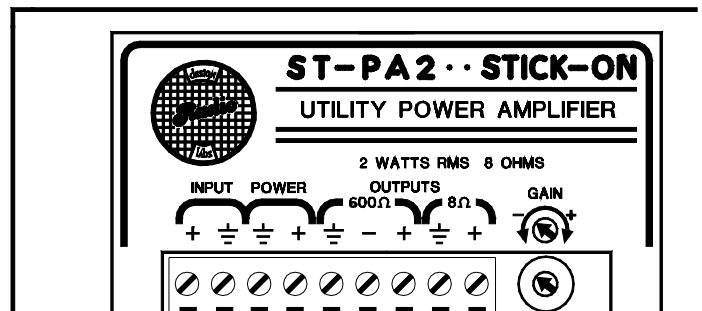
ADJUST LEVELS

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



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 Configuration:  
Input Level:

Unbalanced 10 k $\Omega$   
-15 dBV minimum (for rated power output)  
-20 dBV minimum (for 1 watt RMS into 8  $\Omega$ )

Frequency Response:

35 Hz to 30 kHz (8  $\Omega$  +/- 1.5 dB)  
20 Hz to 30 kHz (600  $\Omega$  +/- 0.5 dB)

THD+N:  
Noise:

< 0.75% (0.5 % typical)  
< -80 dB (8  $\Omega$  @ 2 W RMS)  
< -70 dB (600  $\Omega$ , referred to +4 dBu)

Outputs (2):

1 @ 8  $\Omega$ , 2 watts RMS maximum  
1 @ 600  $\Omega$ , +12 dBu maximum

Power:

24 to 33 Vdc @ 150 mA, Ground-referenced

Radio Design Labs Technical Support Centers

U.S.A. (800) 933-1780, (928) 778-3554; Fax: (928) 778-3506

Europe [NH Amsterdam] (+31) 20-6238 983; Fax: (+31) 20-6225-287