



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

SPECIALISTS IN PRACTICAL PRECISION ENGINEERING™

## TX™ SERIES Model TX-J2 Unbalanced Input Transformer

- Mix two unbalanced audio signals to mono balanced
- Combine stereo into mono with balanced output
- Unbalanced to balanced conversion without gain
- Hum cancellation on unbalanced line inputs
- Passive Converter with Input Jacks

The TX-J2 is part of the group of versatile TX series products from Radio Design Labs. The TX series feature the advanced circuitry for which RDL products are known, combined with durable, quality connectors. The ultra-compact TX series can be mounted in limited space using the adhesive methods popularized by RDL's STICK-ON® Series. The TX-J2 may be mounted directly to a backboard or chassis using a variety of mounting options available from Radio Design Labs.



**APPLICATION:** The TX-J2 is the ideal choice in installations requiring the passive mixing of two unbalanced line-level audio sources to feed a balanced (or unbalanced) audio output.

The TX-J2 is a complete unbalanced line-level audio input module. The front panel features two gold plated phono jacks, intended for mono or stereo consumer level sources. Inputs **1** and **2** are combined and balanced through audio transformers configured to reject induced hum. The line-level output is provided on the front-panel detachable terminal block for connection to 10 kΩ or higher input impedance line-level module or equipment inputs.

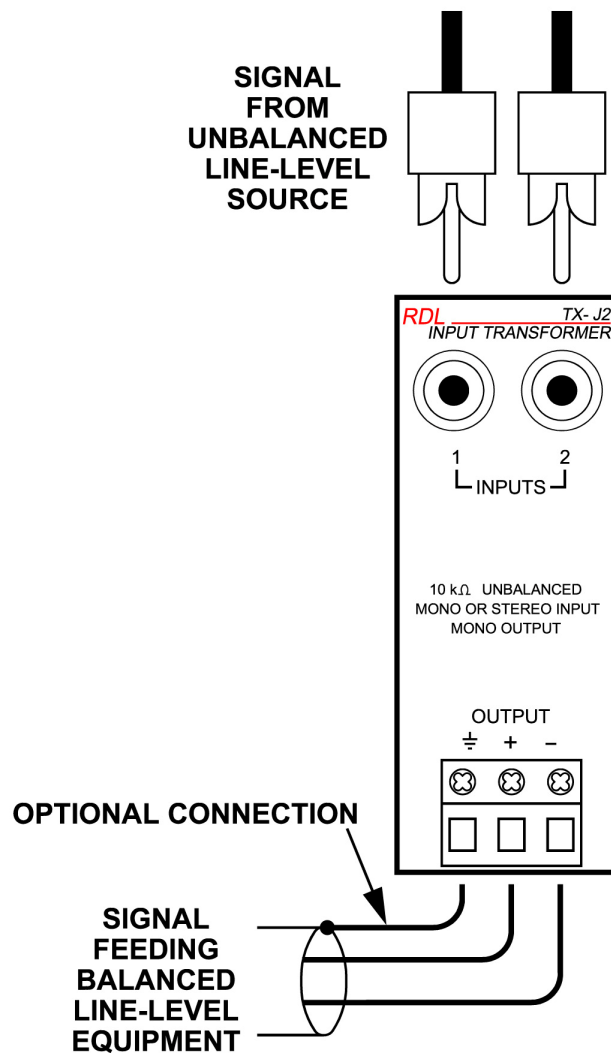
**Note:** The TX-J2 is a passive module that does not add gain to the consumer level input. Therefore the balanced output level from the module is not a standard +4 dBu. For installations where a +4 dBu balanced line-level is required, or if the input level is particularly low, RDL's TX-LC2 is recommended.

Wherever consumer format audio signals need to be converted to a balanced line without gain, the TX-J2 is the ideal choice. Use it individually or in conjunction with other RDL products as part of a complete audio/video system.

**TX™ SERIES**  
**Model TX-J2**  
**Unbalanced Input Transformer**

**Installation/Operation**

**CE** 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.



**TYPICAL PERFORMANCE**

Input connectors (2):  
Output connector:  
Output connections:  
Frequency response (line level):  
Dimensions:

Phono jacks with gold contacts  
Detachable terminal block  
+, -, Ground  
30 Hz to 20 kHz ( $\pm 1$  dB)  
Height: 3.0 in. 7.6 cm  
Width: 1.2 in. 3.0 cm  
Depth (case): 1.5 in. 3.8 cm  
Depth (with connectors): 1.8 in. 4.6 cm