



RDL[®]
Radio Design Labs

SPECIALISTS IN PRACTICAL PRECISION ENGINEERING™

max TX™ SERIES Model TX-AT1S Audio Isolation Transformer

ANYWHERE YOU NEED...

- Studio Quality Audio Transformer
- Bifilar Winding, Nickel Alloy Core
- Protection for Inputs and Outputs
- Transient and RF Suppression
- Barrier Block Transformer Connections
- Galvanic Isolation
- 1:1 Transformer Coupling
- Transformer to Drive 600 Ohm Line
- Convenience of RDL TXs



You Need The TX-AT1S!

The TX-AT1S is part of the group of versatile Max-TX series products from Radio Design Labs. Max-TX modules are the large format members of the RDL TX family, featuring the superior engineering and components common to RDL products. The durable adhesives provided with the TX-AT1S permit permanent or removable mounting. The TX-AT1S may be rack or surface mounted with optional TX series accessories.

APPLICATION: The TX-AT1S is the ideal choice in many applications requiring studio quality transformer coupling between balanced audio equipment and a balanced line in environments where harmful impulses and unwanted rf pickup are likely.

The TX-AT1S is a single-channel (mono) module featuring barrier block connections for the input and output. A studio-quality audio transformer couples the audio input to the audio output. A common ground terminal is connected to the TX-AT1S metal support structure. The TX-AT1S incorporates the latest in surface mount, all solid-state (no gas tube), transient suppression technology coupled with ferrite high frequency suppression.

A 1:1 audio transformer provides galvanic isolation. The audio transformer has 600 Ohm primary and secondary bifilar windings, though is optimized to be driven from a low-impedance source into a bridging load. The primary and/or secondary may be wired unbalanced, providing conversion between balanced and unbalanced audio lines. The TX-AT1S delivers the wideband audio, ultra-low distortion, audio clarity and headroom common to studio equipment in a module suited to both studio and general-purpose audio installations.

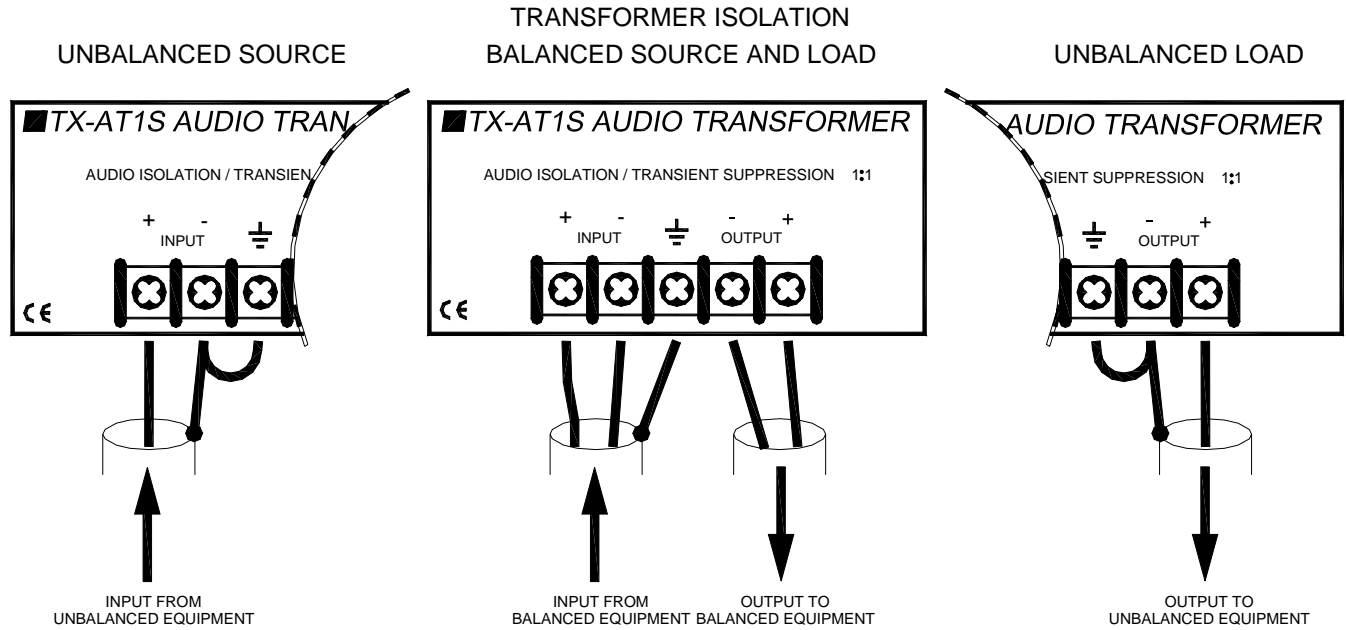
The TX-AT1S's compact size permits mounting in a variety of spaces and in various locations in equipment racks. The TX-AT1S may be mounted where needed, to rack sides or in an equipment rack (either the front or rear rack rails) using a variety of available RDL mounting options. Use the TX-AT1S individually, or combine it with other RDL products as part of a complete audio/video system.

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Model TX-AT1S
Audio Isolation Transformer

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.



TYPICAL PERFORMANCE

Input Connector:	Barrier block
Input Level:	+4 dBu; +22 dBu maximum
Output Connector:	Barrier block
Output Level:	+4 dBu (less insertion loss)
Impedance Ratio:	600: 600
Turns Ratio:	1: 1
Core:	Nickel alloy
Frequency Response:	20 Hz to 20 kHz (+/- 0.1 dB)
THD:	<0.035% (50 Hz to 20 kHz, +4 dBu input) 0.001% (Typ. 1 kHz, +4 dBu input) 0.09% (Typ. 20Hz, +4 dBu input)
Insertion Loss:	0.25 dB (20 Ω source; 10 kΩ load) 2 dB (20 Ω source; 600 Ω load)
CMRR:	>85 dB (balanced input, 50 to 60 Hz)
Maximum interference signal:	30 Vp, 60 Vp-p
HV switch clamp:	24 V actuation; 48 V maximum clamp
Transient energy:	0.1 joule
Power Requirement:	Passive
Overall Dimensions:	
	Height: 1.90 in. 4.83 cm
	Width: 1.63 in. 4.14 cm
	Length: 3.00 in. 7.62 cm

EMC:

