

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!

TX-ATIS AUDIO TRANSFORMER AUDIO ISOLATION / TRANSIENT SUPPRESSION 1:1 INPUT ± OUTPUT + - ± - + C €

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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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.

TRANSFORMER ISOLATION UNBALANCED SOURCE BALANCED SOURCE AND LOAD UNBALANCED LOAD 🗖 TX-AT1S AUDIO TRAN ☑ TX-AT1S AUDIO TRANSFORMER AUDIO TRANSFORMER AUDIO ISOLATION / TRANSIEN AUDIO ISOLATION / TRANSIENT SUPPRESSION 1:1 SIENT SUPPRESSION 1:1 ╧ OUTPUT INPUT OUTPUT € ٢E INPUT FROM UNBALANCED EQUIPMENT INPUT FROM OUTPUT TO BALANCED EQUIPMENT BALANCED EQUIPMENT OUTPUT TO UNBALANCED EQUIPMENT **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 Nickel alloy Core: 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 k Ω 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 3.00 in. 7.62 cm Length: EMC: CE