

## General Description

The Audio Transformer board is designed to fill two needs:

1. Summing, isolating and level shifting of stereo signals from -10dBu to +4dBu/0dBu levels or the reverse. A center-tapped transformer permits the signal to be stepped down to 0dBu in the event the +4dBu is too much. A 0dBu or +4dBu signal may be inserted into the Phoenix connector to provide -12/-6dBu stereo outputs to VCR's, CODEC's, and tape machines, or any gear requiring a stereo signal that is summed and transformer isolated. The PCB is configured for stereo summing/drive by virtue of R1 and R2, which are 1.2K 1% metal film resistors.

The stereo signal is connected to the 1/4" TRS connector as follows Tip = Left, Ring = Right and Sleeve = Shield/Ground. The Phoenix connector (P1) is for the mono signal. The Phoenix connector is labeled: R+ (Red/+) and B- (Black/-) and CT+.

CT is 1/2 or 2:1 (depending on direction) of the Red/+ connection.

2. Mono Level translation from -10dBu to 0dBu/+6dBu or 0dBu/+6dBu to -10dBu. This is intended for mono signals requiring level translations and transformer isolation without summing.

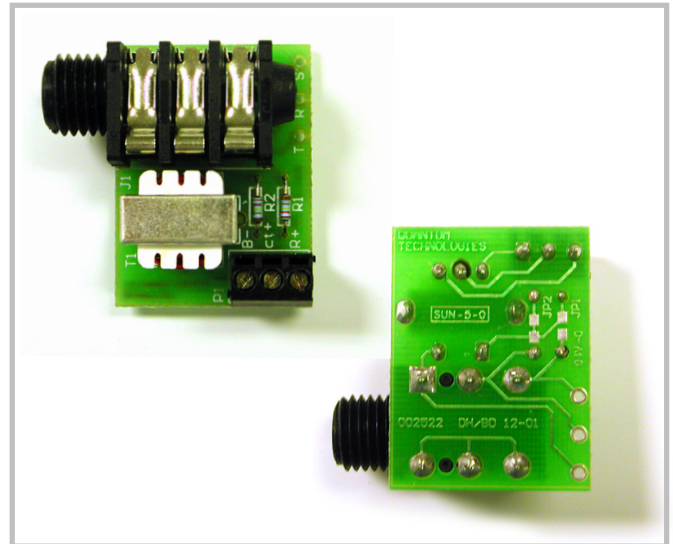
On the top of the board are R1 and R2 used for stereo summing operations. To modify the board to operate as a Level Translator/Isolator (mono to mono) two things must be done:

1. Cut the small trace between the Surface mount pads of JP2.
2. Solder bridge the two surface pads of JP1.

*NOTE: The trace running between JP1 and JP2 must remain.*

The TRS pads behind the TRS connector are parallel connections to the TRS connector as labeled and may be used to connect other style of connectors.

*NOTE: The TRS connector is switched and the tip, ring and sleeve are shorted together to prevent noise pickup when not connected. If external connectors are used the traces connecting the TRS switches may need to be cut. Simply cut each trace next to the TRS switch pins (The pins nearest the edge of the board by the 1/4" connector).*



Note: 1/4" receptacle nut provided.

## Specifications

Frequency Response:	2 dB
IMD:	< 0.15% at rated level
THD:	< 0.12% at rated level
PHASE Response:	< 6 degrees from 20 to 20K
Level Translation:	
TRS Input:	-10dBu
Phoenix Output:	4.6dBu, 0dBu (CT)
Phoenix Input:	+4dBu
TRS Output:	-12dBu, -6dBu (CT)
MSRP:	\$29.00

