

Audio Impedance Matching - PCB Mount: 0.1W to 1W

Triad Magnetics produces a wide assortment of TRIAD audio transformers for use in printed circuit designs. These transformers fill a broad application spectrum in the audio industry. TRIAD audio printed circuit transformers are used in line matching, telephone coupling, pulse trigger, driver, interstage, output, isolation and input applications.

Specifications:

Frequency Response Ranges: 200 - 15,000 Hz

Impedance Matching: 10% over freq. range.

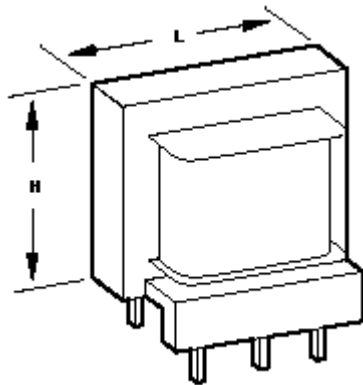


Figure A

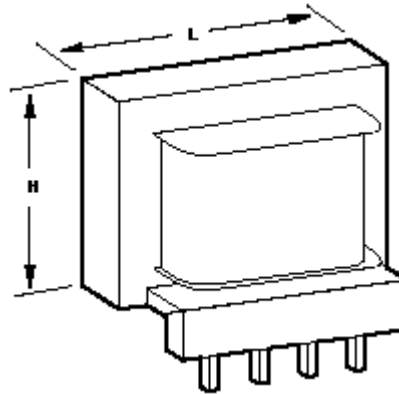


Figure B

PLUG-IN PRINTED CIRCUIT AUDIO TRANSFORMERS

Type No.	Output mW	Primary Impedance	Secondary Impedance	Figure	Pri. DC Unbalance	Dimensions							Wt. Oz.
						H	D	L	A	B	C	J	
TY-141P	100	10,000 CT	10,000 CT	A	4 Ma	5/8	19/32	13/16	3/16	27/64	3/16	0.042	.51
TY-142P	100	10,000 CT	2,000 CT	A	4 Ma	5/8	19/32	13/16	3/16	27/64	3/16	0.042	.51
TY-144P	100	15,000 CT	15,000 CT	A	4 Ma	5/8	19/32	13/16	3/16	27/64	3/16	0.042	.51
TY-145P	100	600 CT	600 CT	A	15 Ma	5/8	19/32	13/16	3/16	27/64	3/16	0.042	.51
TY-146P	1 Watt	600 CT/150*	600 CT/150*	B	-	1 1/8	1 1/8	1 3/8	13/64	1 1/32	3/16	0.042	3.0

* Split winding

** Inductance tolerance - 20% + 50%

CT=Center Tap

TECHNICAL NOTES:

1. Plug-in terminals are spaced to provide fixed mounting centers.

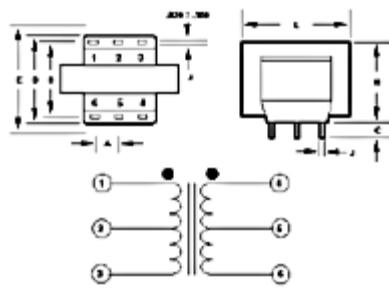


Figure A

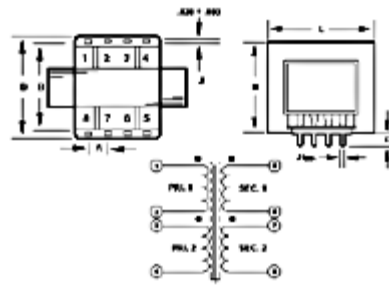


Figure B

TY - 146P

Description:

These transformers operate in the 200 Hz to 15,000 Hz range, making them suitable for a broad application spectrum in the audio industry. These devices are used in line matching, telephone coupling, pulse trigger, driver, interstage, output, isolation and input applications.

Operating Temperature Range: 0° C to 105° C

Electrical Specifications at 25° C:

- | | |
|-------------------------------|--|
| 1. Primary Impedance: | 600Ω CT / 150Ω
+ 15% with 600Ω load |
| 2. Secondary Impedance: | 600Ω CT / 150Ω |
| 3. Output: | 1W |
| 4. Primary DC Unbalance: | 0 Ma |
| 5. Frequency Response: | ± 2db from 200 to 15,000 Hz |
| 6. Impedance Matching: | 10% over full frequency range |
| 7. Longitudinal Balance | > 45db |
| 8. Insertion Loss @ 1K Hz: | < 1.5db |
| 9. Return Loss: | > 26db |
| 10. Total Harmonic Distortion | < 0.5% between 275Hz and 3.5KHz |
| 11. DCR: | |
| Primary (1-2) | 17Ω Nominal |
| Primary (3-4) | 19Ω Nominal |
| Secondary (5-6) | 14.5Ω Nominal |
| Secondary (7-8) | 22Ω Nominal |
| 12. Turns Ratio: | 1 : 1 |
| 13. Dielectric Strength | 1500V Pri to Sec to Core |

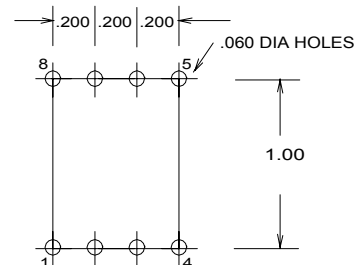
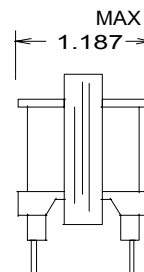
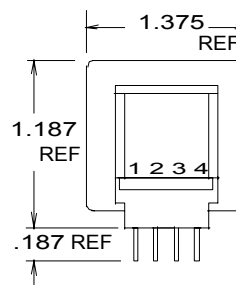
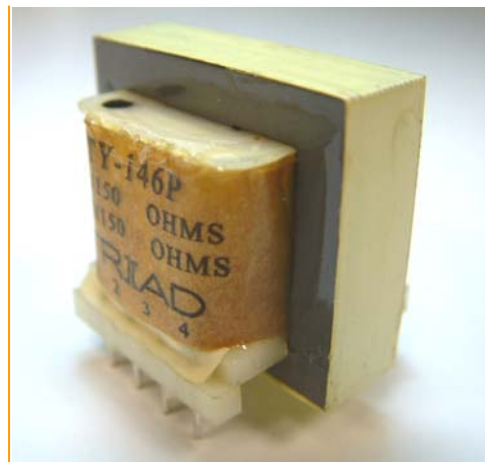
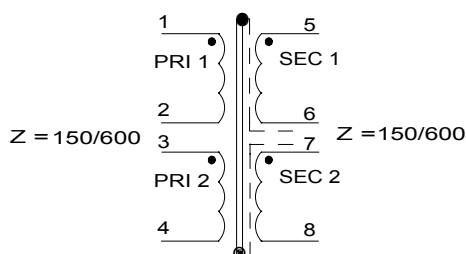
Construction:

Bobbin has plug-in terminals which are spaced to provide fixed mounting centers. Pins are a rugged .042" square, minimizing the incidence of bent pins from handling.

Outline Dimensions:

- A. Dimensions: As figures show
 B. PIN DIM. : .0375" x .020"
 C. Weight. : 3.0 oz.

Schematic:



RoHS Compliance: As of manufacturing date February 2005, all standard products meet the requirements of 2002/95/EC, known as the RoHS initiative.