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.

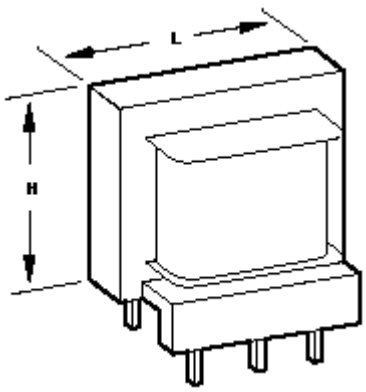


Figure A

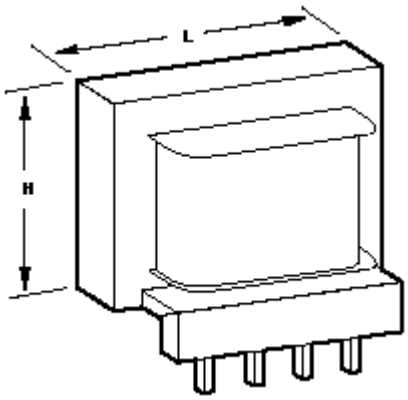


Figure B

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.

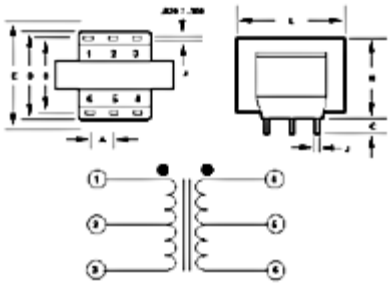


Figure A

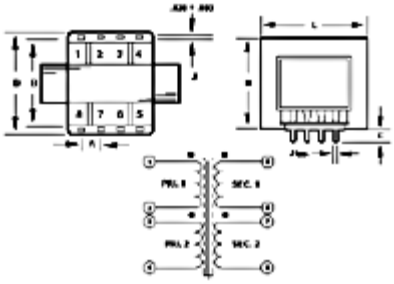
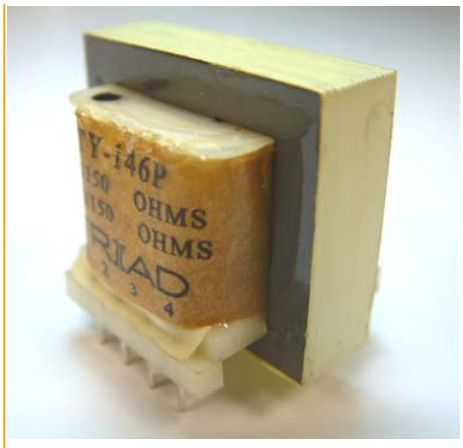


Figure B

Audio Transformer

PC Mount

T Y - 1 4 6 P



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:

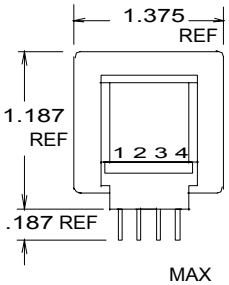
1.	Primary Impedance:	600Ω CT / 150§ + 15% with 600Ω load
2.	Secondary Impedance:	600Ω CT / 150§
3.	Output:	1W
4.	Primary DC Unbalance:	0 Ma
5.	Frequency Response:	± 2db from 200 to 15,000 Hz
6.	Impedance Matching:	10% over full frequency range
7.	Longitudinal Balance	> 45db
8.	Insertion Loss @ 1K Hz:	< 1.5db
9.	Return Loss:	> 26db
10.	Total Harmonic Distortion	< 0.5% between 275Hz and3.5KHz
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

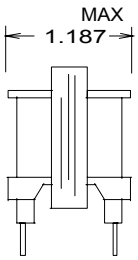
Construction:

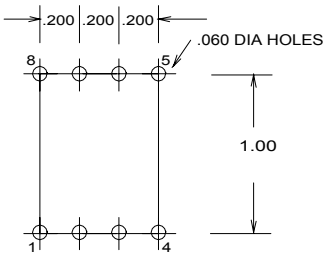
Bobbin has plug-in terminals which are spaced to provide fixed mounting centers. Pins are a rugged .042" square, minimizing the incidence of bent pins from handling.

Outline Dimensions:

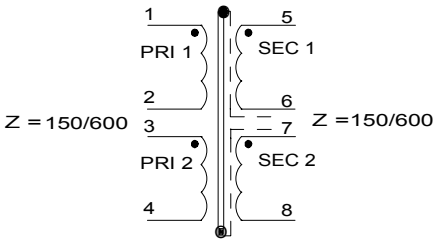
A. Dimensions: As figures show
B. PIN DIM. : .0375" x .020"
C. Weight. : 3.0 oz.







Schematic:



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