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:



PLUG-IN PRINTED CIRCUIT AUDIO TRANSFORMERS

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





Audio Transformer

PC Mount

TY-144P

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.

15000Ω CT

15000Ω CT

100mW

4 Ma

> 45db

> 26db

1:1

< 1.5db

1180Ω Nominal

1600Ω Nominal

1500V Pri to Sec to Core

+ 15% with 600Ω load

+ 2db from 200 to 15,000 Hz

10% over full frequency range

< 0.5% between 275Hz and 3.5KHz

Operating Temperature Range: 0° C to 105° C

Electrical Specifications at 25° C:

- 1. Primary Impedance:
- 2. Secondary Impedance:
- 3. Output:
- 4. Primary DC Unbalance:
- 5. Frequency Response:
- 6. Impedance Matching:
- 7. Longitudinal Balance
- 8. Insertion Loss @ 1K Hz:
- 9. Return Loss:
- 10. Total Harmonic Distortion
- 11. DCR:
 - Primary (1-3) Secondary (4-6)
- 12. Turns Ratio:
- 13. Dielectric Strength

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. : 0.51 oz.

Schematic:



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





