

Audio Transformers

Data / Voice Coupling

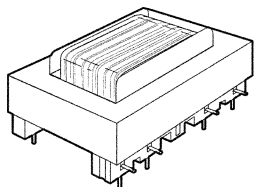


Figure A

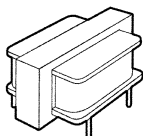


Figure B

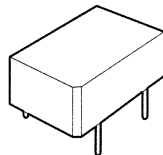


Figure C

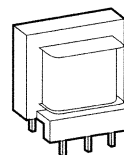


Figure D

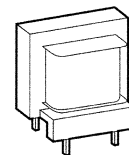


Figure E

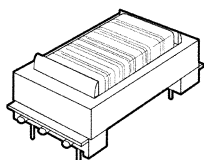


Figure F

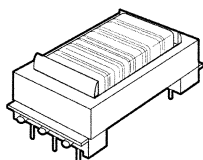


Figure G

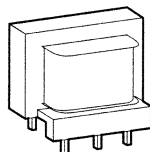


Figure H

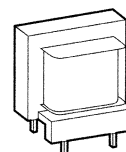


Figure I

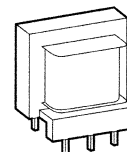


Figure J

:: Description

Triad telecommunications transformers are designed to meet the requirements for access over leased private lines or through the dial-up switched telephone network. The TY series transformers are used for a variety of applications including impedance matching, isolation, repeat coil, line balancing, bridging, and hybrid circuits.

:: Specifications

Designed to meet FCC Part 68

Longitudinal Balance: (FCC 68.310) - 60 dB min. 200 - 1,000 Hz
45 dB min. 1,000 - 4,000 Hz

Dielectric Strength: (FCC 68.304) - 1,500 V

Power Level: -45 dBm to +7 dBm

Frequency Range: Data / Voice = 300 to 3,500 Hz
Data = 800 to 3,500 Hz

:: Data/Voice Coupling Transformers

Section	Type No.	Impedance (Ohms)		Max. DC Current (mA)	Typ. Insertion Loss (dB)	Typ. Return Loss (dB)	Typ. Freq. Response (dB)	Schematic	Figure
		Pri.	Sec.						
A	TY-305P	600	600	100	1.5	10	±5	1	A
B	TY-306P	600 Split	600	75	1.5	10	±5	2	A
C	TY-307P	600	600	0	1.0	26	±5	3	B
D	TY-310P	600	600	0	1.0	26	±5	3	C
E	TY-311P	600	600	0	1.0	26	±5	3	E
F	TY-304P	600 CT	600 CT	0	1.0	26	±5	4	D
G	TY-301P	600	900	0	1.0	26	±5	5	E
H	TY-303P	4000	600	0	1.0	26	±5	6	E

CT = Center Tap

:: Data/Voice Coupling Transformers

Section	Type No.	Impedance (Ohms)		Max. DC Current (mA)	Typ. Insertion Loss (dB)	Typ. Return Loss (dB)	Typ. Freq. Response (dB)	Schematic	Figure
		Pri.	Sec.						
I	TY-400P	600	600	90	1.75	15	±5	3	I
J	TY-401P	600 CT	600 CT	90	1.75	15	±5	4	J
K	TY-402P	600	600	90	1.75	13	±5	7	F
L	TY-403P	600	600 Split	90	1.75	13	±5	8	G

CT = Center Tap

:: Data/Voice Single Transformer Hybrids

Section	Type No.	Impedance (Ohms)		Max. DC Current (mA)	Typ. Insertion Loss (dB)	Typ. Return Loss (dB)	Trans-Hybrid Loss (dB)	Schematic	Figure
		Pri.	Sec.						
M	TY-300P	600 (4W)	600/600	0	.80	30	50	9	D
N	TY-302P	600 (4W)	600/600	0	.65	32	55	9	H

Outline Dimensions

Technical Notes

Primary connections shown on left side of schematics.

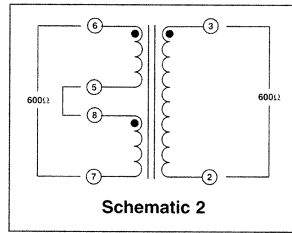
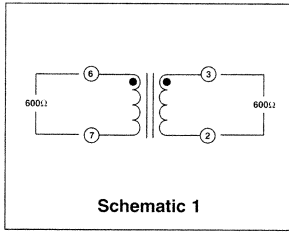


Figure A

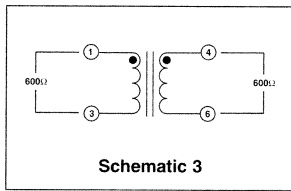
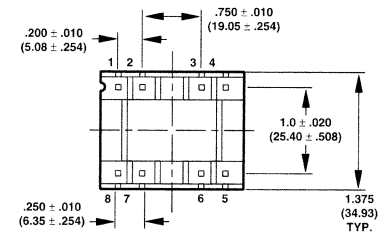
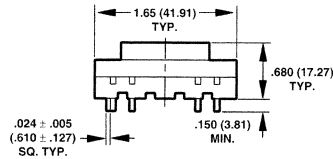


Figure B

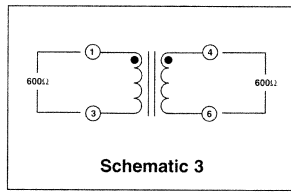
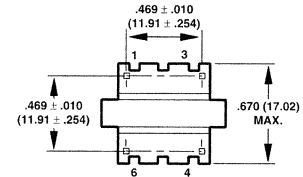
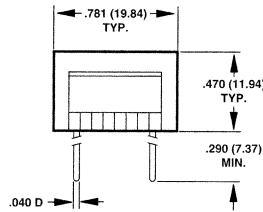


Figure C

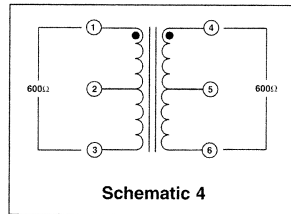
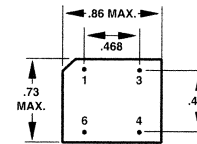
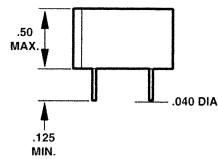


Figure D

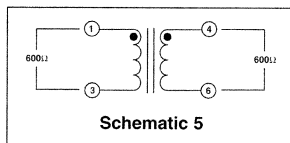
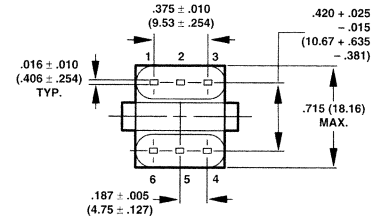
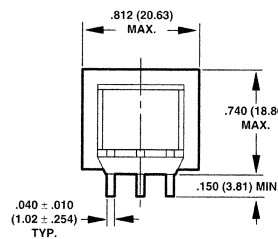
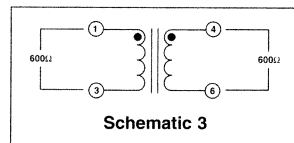
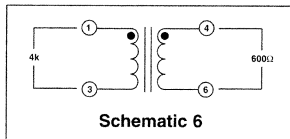
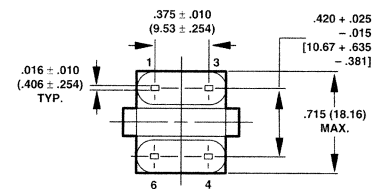
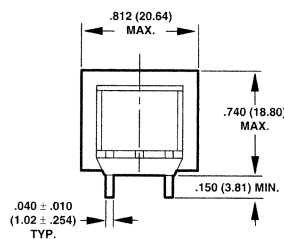


Figure E



Outline Dimensions

