Voice & Data Coupling Transformers

Impedance Matching Transformers for Telecommunications

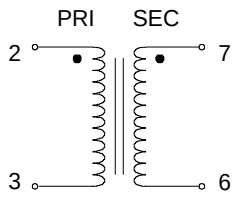
- Low Distortion
- May be used in V.32 applications
- Isolation is 1500 V_{RMS} min.
- Frequency 300Hz to 3500Hz
- Designed to meet FCC part 68
- Custom Designs Available

Secondary load 600 Ω with DC in Pri.

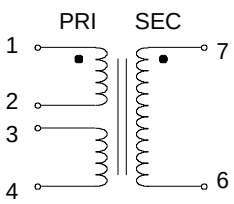
Part Number	Impedance PRI. (Ω)	Impedance SEC. (Ω)	Turns Ratio ± 2%	DCI max. (mA)	Insertion Loss (1) (dB)	Return (2) Loss (dB)	THD (3) (dB)	DCR PRI. (Ω)	DCR SEC. (Ω)	Frequency (4) Response (± dB)	Schematic Style / Pkg
T-31000	600	600	1:1	80	1.50	11.5	-65	55.0	65.0	0.5	A / 8-pin
T-31001	600	600	1:1.127	80	1.00	14.5	-65	55.0	70.0	0.3	B / 8-pin
T-31002	600	600	1:1.127	80	1.30	12.5	-53	67.0	76.0	0.5	B / 8-pin
T-31003	900	600	1:0.817	80	1.55	11.0	-65	76.0	92.0	0.5	A / 8-pin
T-31004	900	600	1:0.817	80	1.60	10.5	-53	76.0	92.0	0.5	A / 8-pin
T-31005	900	600	1:0.942	80	1.20	12.5	-65	83.0	126	0.5	B / 8-pin
T-31006	900	600	1:0.942	80	1.30	11.0	-53	83.0	126	0.5	B / 8-pin
T-31010	600	600	1:1	80	1.20	13.0	-53	66.2	82.2	0.5	C / 12-pin
T-31011	600	600	1:1.125	80	1.25	16.0	-59	76.0	86.0	0.5	D / 12-pin
T-31012	900	600	1:.0816	80	1.50	9.5	-53	82.8	85.4	0.5	C / 12-pin
T-31013	900	600	1:0.946	80	1.55	12.0	-53	90.0	110	0.5	D / 12-pin
T-31014	600	600	1:1	80	1.20	13.0	-53	66.0	82.0	0.5	D / 12-pin

1. Insertion Loss measured at 1 KHz
2. Return Loss measured at 300 Hz
3. Total Harmonic Distortion measured at 0 dBm & 300 Hz
4. Frequency Response measured from 300 Hz to 3500 Hz

Schematic "A"



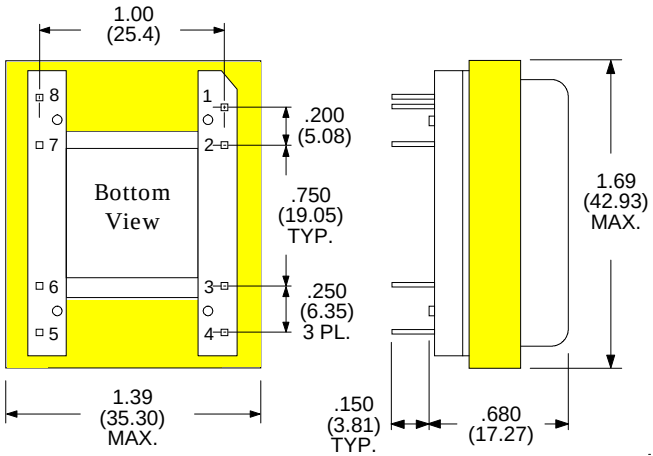
Schematic "B"



Dimensions in Inches (mm)

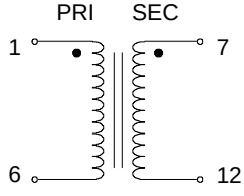
Unused Pins Omitted as per Schematic

8-Pin Package (T-31000 to T-31006)

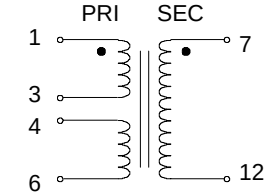


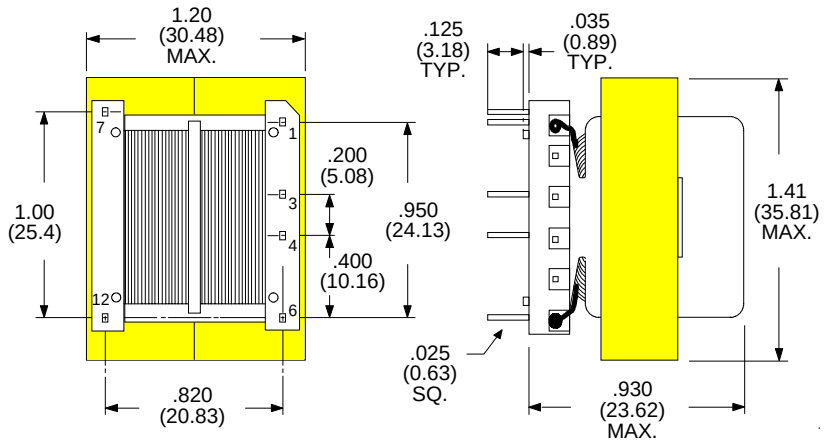
12-Pin Package (T-31010 to T-31014)

Schematic "C"



Schematic "D"





For other values & Custom Designs, contact factory.

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