

# T1/E1/CEPT PULSE INTERFACE TRANSFORMER

## TSO SERIES

### FEATURES:

- RoHS compliant
- PCB mounting
- UL 94V-0 Package materials
- Low profile 6Pin/8Pin Dip package
- Low leakage inductance
- Low interwinding capacitance
- High isolation voltage
- Meets MIL-STD21038
- IEEE 802.3 Compliant

### APPLICATIONS:

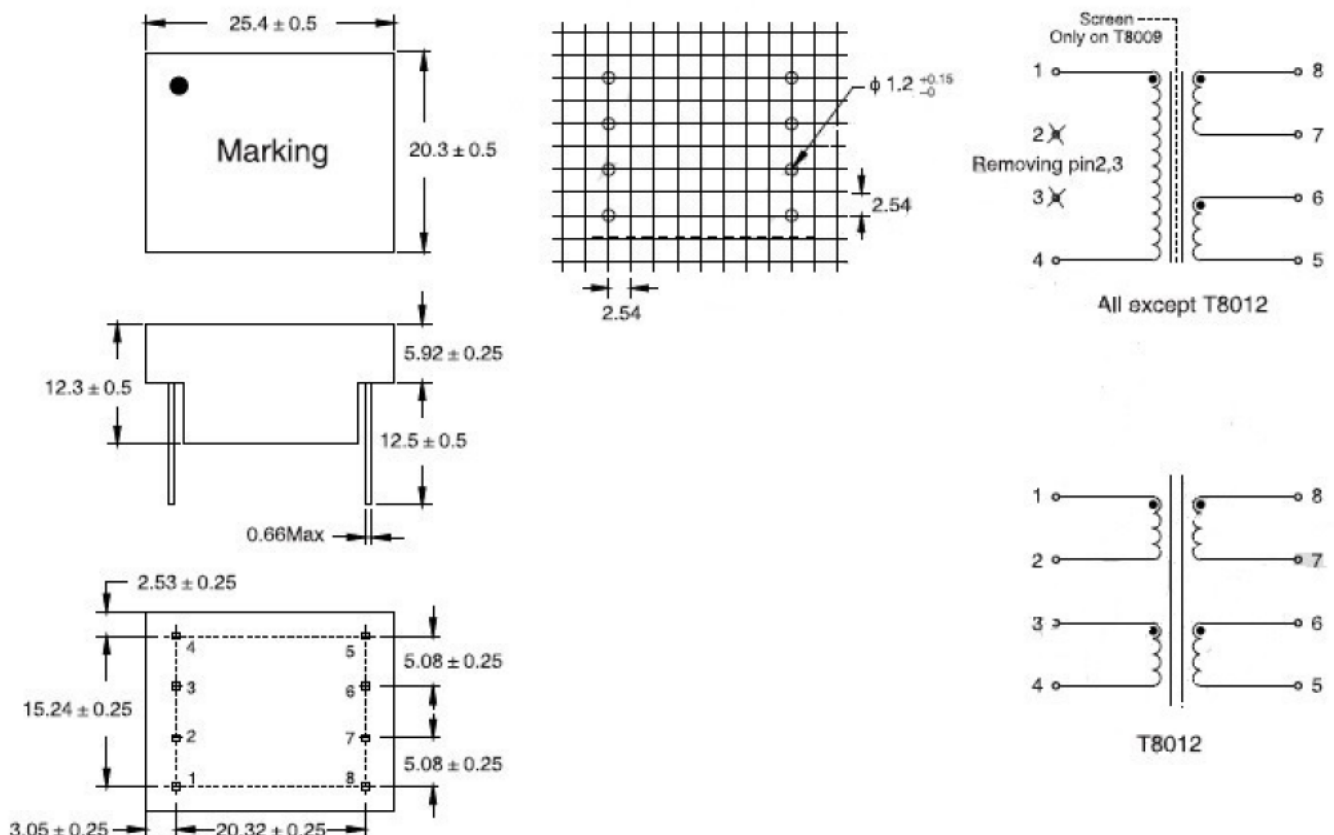
- LAN, WDN
- Computers
- SMPS Control circuits
- T1/E1/CEPT
- Pulse interface transformer
- Power transformer



### ELECTRICAL CHARACTERISTICS@25°C

Part Number	T8001	T8002	T8003	T8004	T8005	T8006	T8007	T8008	T8009	T8010	T8011	T8012	Units
Turns ratio	1:1	2:1	1:1	1:1	1:1	2:1	1:1	2:1	1:1	2:1	1:1	1:1	
Pri Inductance (Min.)	1.0	1.0	4.0	4.0	16.3	16.3	1.0	1.0	4.0	4.0	16.3	1.0	mH
Pri Et Constant (Min.)	120	120	240	240	482	482	120	120	240	240	482	120	V <sub>us</sub>
Leakage Inductance (Max.)	3.0	3.0	5.0	11	40	40	2.0	3.5	11	11	18	3.0	μH
Interwinding Capacitance (Max.)	40	30	55	35	40	40	50	30	18	35	65	40	pF
Pri DCR (Max.)	0.25	0.24	0.86	0.9	3.6	3.5	0.25	0.24	0.9	0.84	3.5	0.25	Ω
Sec DCR(Max.)	0.22	0.12	0.83	0.76	3.1	1.6	0.23	0.12	0.76	0.38	3.4	0.22	Ω
Sec2 DCR(Max.)	0.28	0.15	—	11	4.2	2.0	—	0.15	11	0.5	—	0.28	Ω
Sec3 DCR(Max.)	—	—	—	—	—	—	—	—	—	—	—	0.36	Ω
Isolation voltage (1 second)	2.5	4.0	2.5	2.5	2.5	2.5	2.5	2.5	2.5	2.5	2.5	2.5	kVrms

### PHYSICAL CHARACTERISTICS & WINDING



### Notes

- Operating temperature range: 0°C to +70°C.
- Storage temperature range: 0°C to +70°C.
- Isolation voltage: 4000Vrms
- Electrical specifications at 25°C.
- All specifications subject to change without notice.