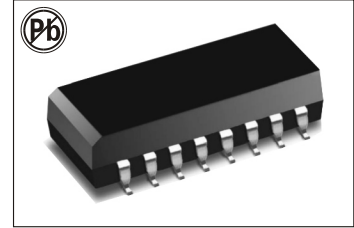


E1/T1/ISDN-PRI TRANSFORMER

T-100 SERIES



FEATURES:

- Mini SWT SO package
- Extended Temperature Range
- 1500 Vrms Isolation

OPTIONS:

- Tape & Reel is Standard
- Custom design available

COMMON APPLICATIONS:

- E1/T1/CEPT/ISDN- Pri Transformer

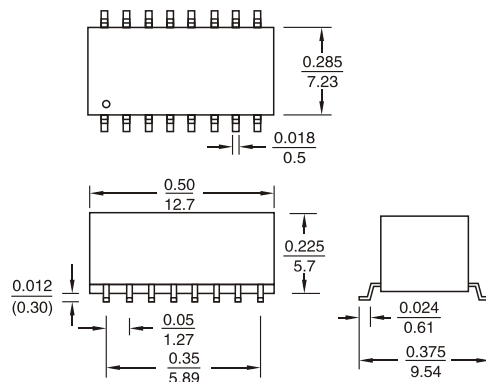
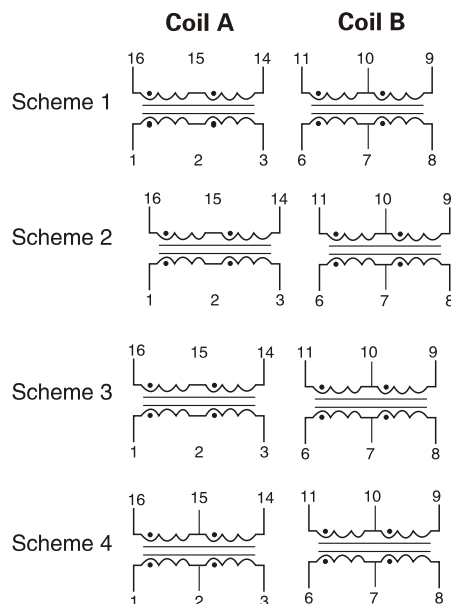
STANDARD SPECIFICATIONS

Part Number	Turns Ratio $\pm 2\%$		Lp (mH) (Min)	C _{ww} (pF) (Max)	L _L (μ H Max) A/B	DCR (Ω Max)		SCH	Primary Pins	
	Coil A	Coil B				A: Pri/Sec	B: Pri/Sec		Coil A	Coil B
T-101	1CT:2CT	1CT:2CT	1.5	45/45	0.6/0.6	1.0/2.0	1.0/2.0	1	16-14	6-8
T-102	1CT:2CT	1CT:2CT	1.5	45/45	0.5/0.5	1.0/2.0	1.0/1.0	1	1-3	11-9
T-103	1CT:1.41CT	1CT:1.41CT	1.28	30/30	0.8/0.8	0.7/0.9	0.7/0.9	1	1-3	11-9
T-104	1CT:1.15CT	1CT:1.15CT	1.5	45/45	0.5/0.5	1.0/1.0	1.0/1.0	1	1-3	11-9
T-105	1:1.15CT	1.2CT	1.5	40/40	0.5/0.5	0.7/0.9	0.7/0.9	2	16-14	6-8
T-106	1CT:1.25CT1.15	1CT:2CT	1.5	40/40	0.5/0.5	0.7/0.9	0.7/0.9	1	16-14	6-8
T-107	1CT:2CT	1CT:2CT	1.2	30/30	0.6/0.6	0.7/1.0	0.7/1.0	1	16-14	6-8
T-108	1CT:1CT	1CT:1.36CT	1.2	30/30	0.6/0.6	0.7/0.7	0.7/0.7	1	16-14	6-8
T-109	1CT:1.15CT	1CT:1.15CT	1.2	30/30	0.6/0.6	0.7/0.5	0.7/0.75	1	1-3	6-8
T-110	1:1.15CT	1:2CT	1.2	30/30	0.6/0.6	0.7/0.75	0.7/1.0	3	16-14	6-8
T-111	1CT:1.41CT	1CT:1.41CT	1.0	30/30	0.6/0.6	0.7/0.9	0.7/0.9	1	16-14	11-9
T-112	1CT:2.42CT	1CT:2.42CT	1.2	25/25	0.6/0.6	0.7/1.2	0.7/1.2	1	1-3	6-8
T-113	1CT:2CT	1CT:1.36CT	1.2	30/30	0.6/0.6	0.7/1.2	0.7/0.8	4	16-14	6-8
T-114	1:1.36CT	1:2CT	1.5	35/40	0.5/0.5	0.9/1.3	0.9/1.3	2	16-14	6-8
T-115	1CT:2.4CT	1CT:1CT	1.0	30/30	0.8/0.8	0.85/1.5	0.85/0.85	1	1-3	11-9
T-116	1:1/1.26	1:1/2CT	1.2	30/30	0.6/0.6	0.7/0.8	0.7/1.0	3	16-14	6-8
T-117	1CT:1CT	1CT:1.5CT	1.0	30/30	0.6/0.6	0.7/0.7	0.7/1.0	1	16-14	6-8
AT-118	1CT:2CT	1CT:1.36CT	1.2	30/30	0.6/0.6	0.7/1.0	0.7/0.8	4	16-14	6-8

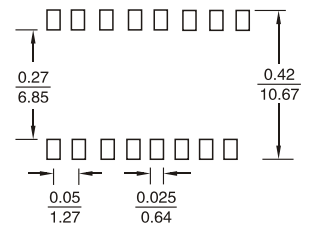
Note: 1. K = $\pm 10\%$, M = $\pm 20\%$

TECHNICAL INFORMATION & PHYSICAL CHARACTERISTICS

NOTE: (Extend Temperature -40°C to 85°C , OCL is 0.6 mH min @ -40°C)



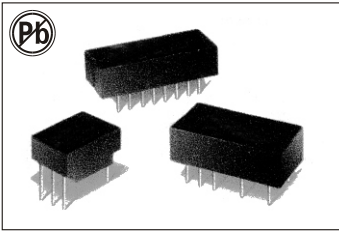
Dimension: Inch/mm



Recommended Pad Layout

- Soldering methods: Wave, Reflow
- Operating Temperature: 0°C to 70°C (-40°C to 85°C Extended)
- Storage Temperature: -55°C to 125°C

Note: All specifications subject to change without notice.



T1/E1/ISDN-PRI TRANSFORMER MODULES

T-6000 SERIES

FEATURES:

- Low Profile 6PIN DIP Package
- Low Leakage Inductance
- Low Interwinding Capacitance
- High Isolation Voltage
- Meets MIL-STD21038

OPTIONS:

- Tape & Reel is Standard
- Custom design available

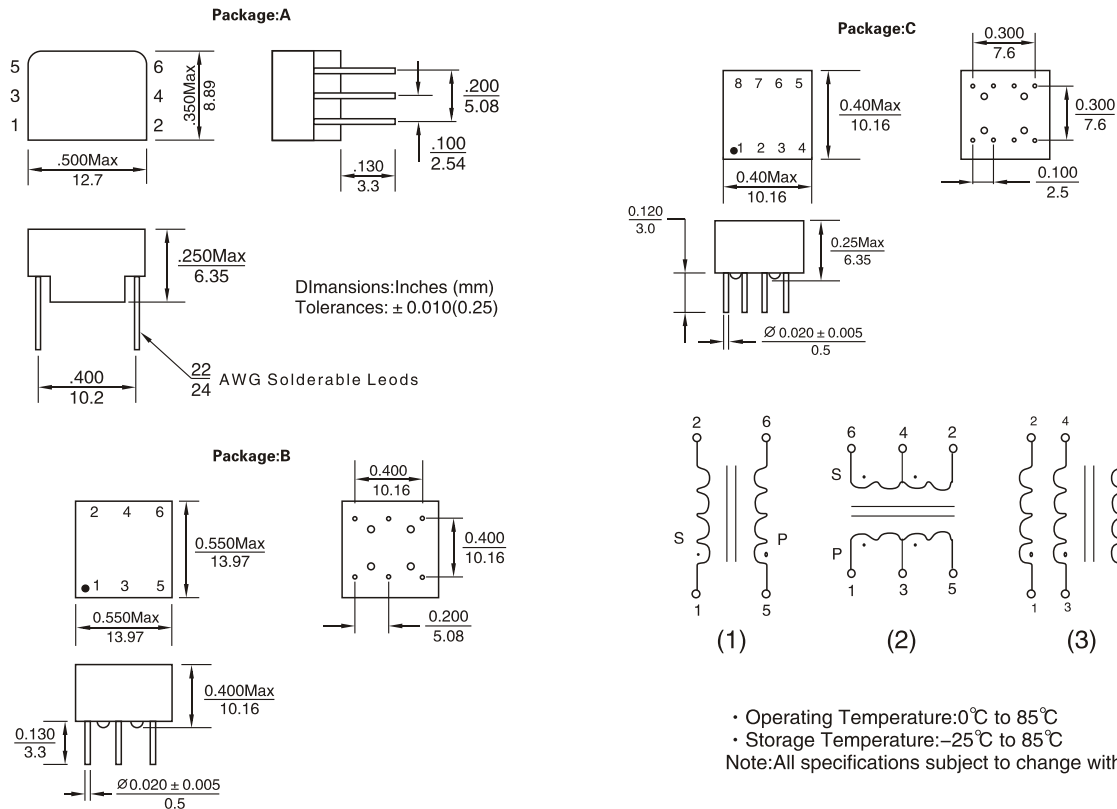
APPLICATIONS:

- Lan, WDN
- Computers
- SMPS Control Circuits
- T1/E1/ISDN-PRI

SPECIFICATIONS @ 250C:

Part Number	TURNS RATIO (± 5%)	PULSE INDUCTANCE (μ H ± 20%)	LEAKAGE INDUCTANCE (μ H MAX)	PRIMARY ET-CONSTANT (V-US MIN)	PRI/SEC CW/W (PF MAX)	PRIMARY DCR (OHMS MAX)	SECONDARY DCR (OHMS MAX)	TERTIARY DCR (OHMS MAX)	HI-POT (VRMS MIN)	PACKAGE
T-6001	1:1	10	0.3	3.2	18	0.9	0.9	-	500	A/B
T-6002	1:1	50	0.4	5.0	21	0.9	0.9	-	500	A/B
T-6003	1:1	500	0.5	8.5	32	1.3	1.3	-	500	A/B
T-6004	1:1	2000	0.8	16.0	37	2.5	2.5	-	500	A/B
T-6005	1CT:1CT	50	0.3	5.0	18	0.9	0.9	-	500	A/B
T-6006	1CT:1CT	200	0.4	5.2	18	1.3	1.3	-	500	A/B
T-6007	1CT:1CT	500	0.5	8.5	32	1.3	1.3	-	500	A/B
T-6008	1CT:1CT	2000	0.8	16.0	37	2.5	2.5	-	500	A/B
T-6009	2:1:1	20	0.8	5.0	8	0.9	0.5	0.5	500	A/B/C
T-6010	3:1:1	200	1.3	5.0	7	0.9	0.4	0.4	500	A/B/C
T-6011	4:2:1	500	0.9	8.5	13	1.4	0.8	0.5	500	A/B/C
T-6012	4:2:1	2000	2.5	16.0	20	2.5	1.4	0.8	500	A/B/C

TECHNICAL INFORMATION & PHYSICAL CHARACTERISTICS



• Operating Temperature: 0°C to 85°C
 • Storage Temperature: -25°C to 85°C
 Note: All specifications subject to change without notice.

T1/E1/CEPT PULSE INTERFACE TRANSFORMER

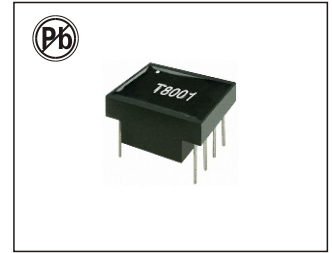
T80 SERIES

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:

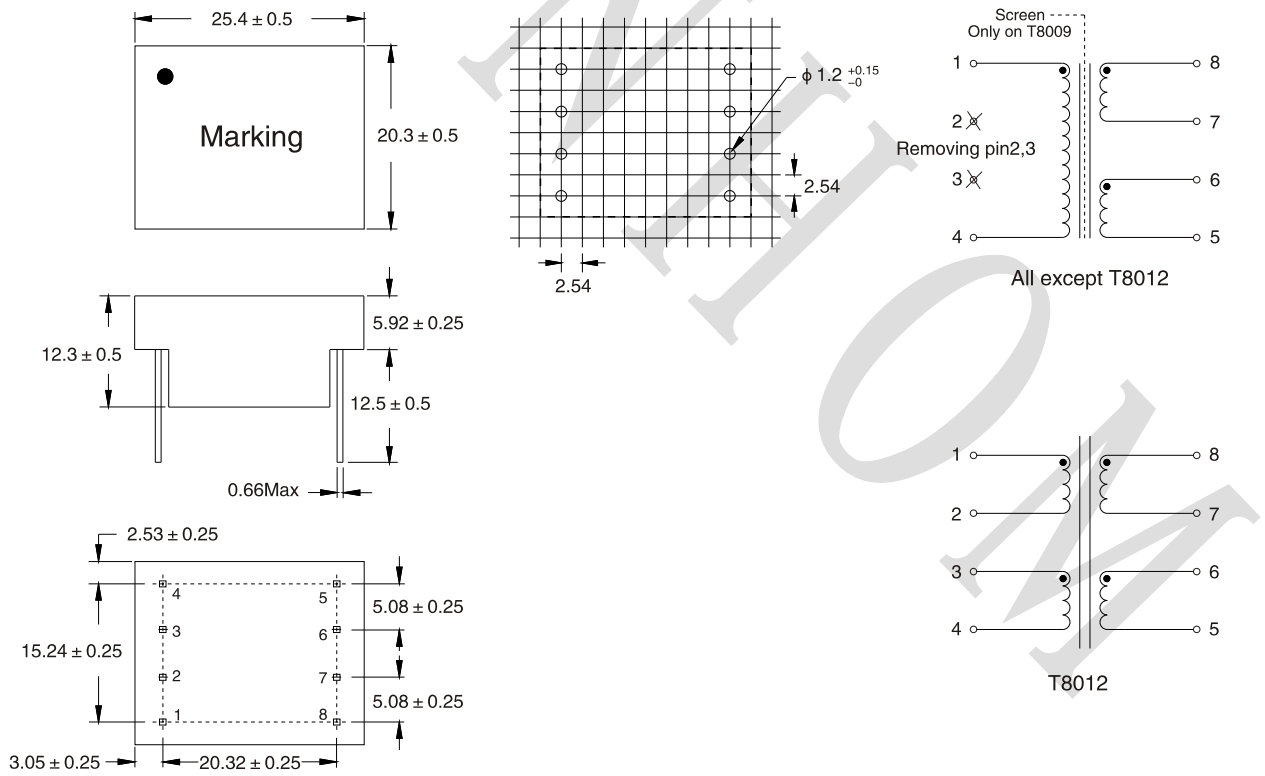
- LAN, WDN
- Computers
- SMPS Control circuits
- T1/E1/CEPT
- Pulse interface transformer
- Power transformer



ELECTRICAL CHARACTERISTICS@25°C

Part Number	T8001	T8002	T8003	T8004	T8005	T8006	T8007	T8008	T8009	T8010	T8011	T8012	Units
Turns ratio	1:1:1	2:1:1	1:1	1:1:1	1:1:1	2:1:1	1:1	2:1:1	1:1:1	2:1:1	1:1	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	Vus
Leakage Inductance (Max.)	3.0	3.0	5.0	11	40	40	2.0	3.5	11	11	18	3.0	uH
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	---	1.1	4.2	2.0	---	0.15	1.1	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.