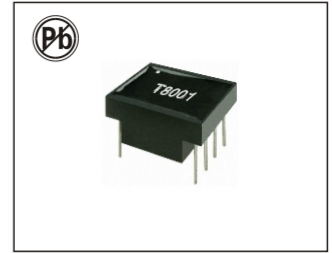


T1/E1/CEPT PULSE INTERFACE TRANSFORMER

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

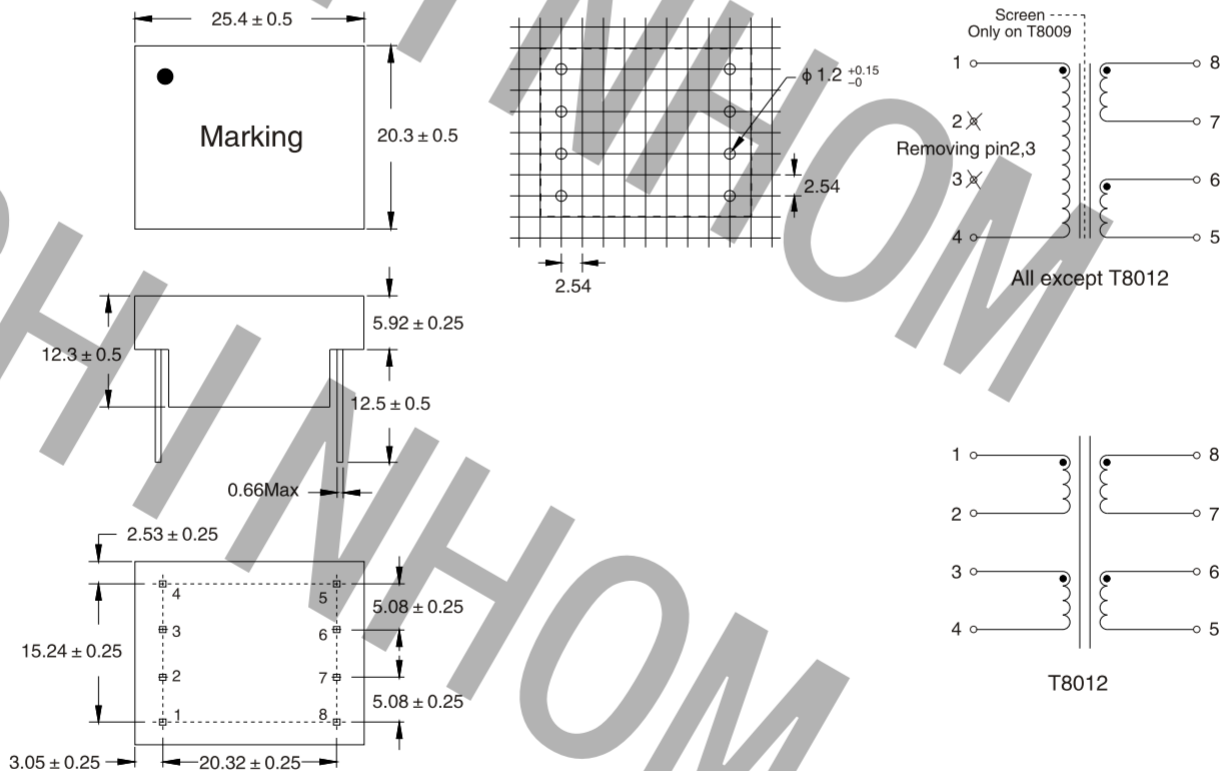
APPLICATIONS:

- 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

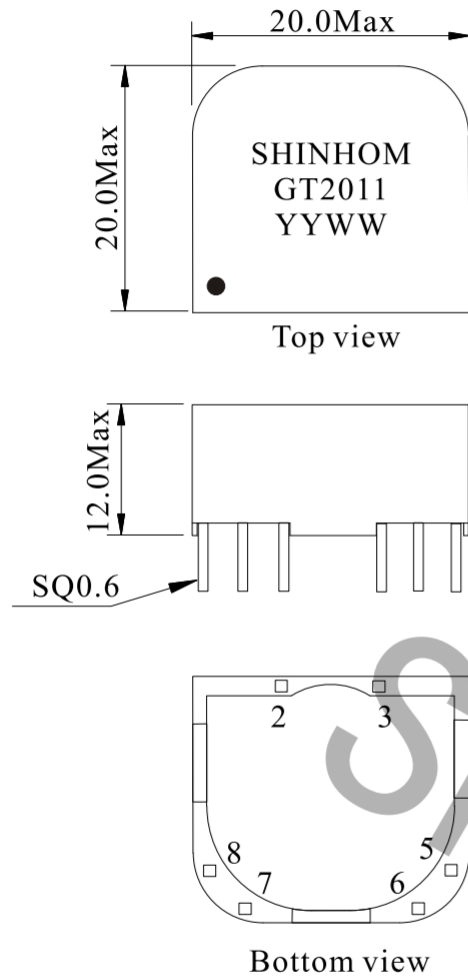


Notes

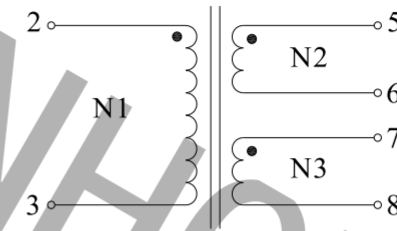
- Operating temperature range: 0°C to +70°C.
- Storage temperature range: 0°C to +70°C.
- Isolation voltage: 4000Vrms
- Electrical specifications at 25°C.
- All specifications subject to change without notice.

Rev.	Description	Date
A0	New release	2023-11-21

1. PHYSICAL CHARACTERISTICS (mm)



2. ELECTRONICAL SCHEMATIC



3. ELECTRONICAL SPECIFICATIONS

Turns ratio: N1:N2:N3=1:1:1
Inductance(N1=N2=N3): 0.8mH+50%/-30%@10KHz,0.1V
Lk: 25uH Max@10KHz,0.1V
DCR(N1=N2=N3): 0.4 Ω ±20%
Voltage-time area : 200V*us Min
Rise time: 1.5uS Max
Trigger current: 0.25A
Load resistance: 40 Ω
Power dissipation: 0.7W
Coupling capacity: 30pF Max@100KHz,1V
Working voltage: 700VRMS Max
Hi-Pot: 3200VAC,50Hz,2S N1 to N2,N3
3200VAC,50Hz,2S N2 to N3
Operating temperature: -20°C to +85°C
Storage temperature: -30°C to +70°C

NOTES:
Temp 20°C 48%RH
RoHS Compliant

NAME:	Pulse transformers for broadband PLC system		
CUSTOMER P/N:		DATE:	2024-01-04
SHINHOM P/N:	GT2011	REV: A0	PAGE
DRAWN BY	CHECKED BY	APPROVE BY	

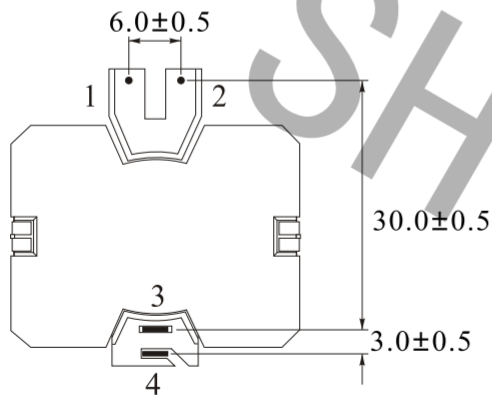
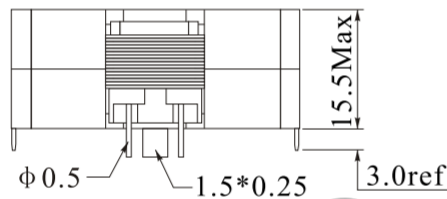
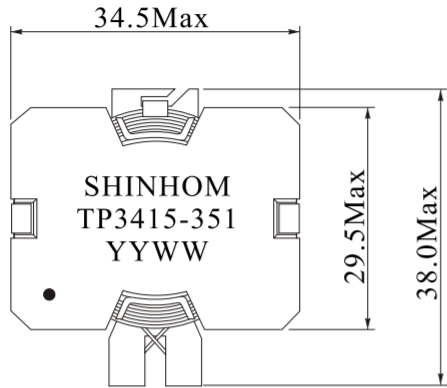


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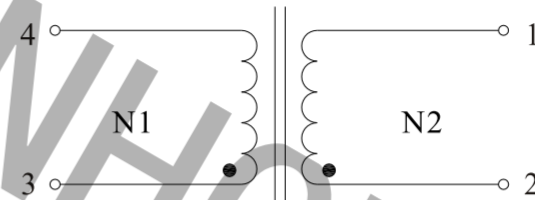
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Rev.	Description	Date
A0	New release	2024.01.08

1. PHYSICAL CHARACTERISTICS (mm)



2. ELECTRICAL SCHEMATIC



3. ELECTRICAL SPECIFICATIONS

- Turns ratio: (3-4):(2-1)=1:6
- L(3-4): 3.2uH Min@10KHz,0.1V
- Lk(2-1): 2.2uH Max@10KHz,0.1V
- DCR(3-4): 4.0mΩ Max
- DCR(2-1): 195mΩ Max
- Pri rated current: 25.58A(98A Peak)
- Sec rated current: 3.44A(16.3A Peak)
- Pri rated voltage: 65V
- Sec rated voltage: 311V(389V Max)
- Rated frequency: 50KHz
- Rated power: 375W
- Hi-Pot: 3000Vac, 1mA,60S Coil to C oil
- Operating temperature: -40°C to +65°C

NAME:	Pulse transformer for inverter		
CUSTOMER P/N:		DATE:	2024-01-08
SHINHOM P/N:	TP3415-351	REV:	A0
DRAWN BY:	CHECKED BY:	APPROVE BY:	



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