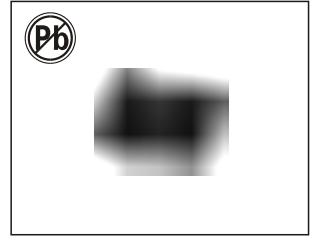


DUAL BROADBAND PLC TRANSFORMER

DT1142CE

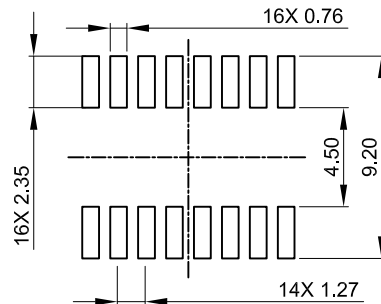
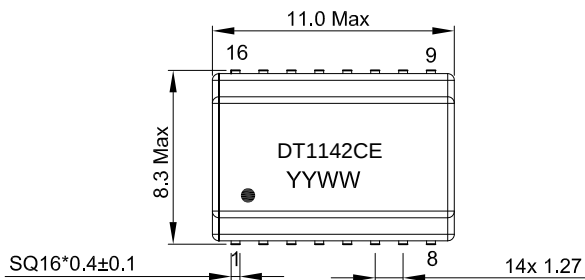


FEATURES:

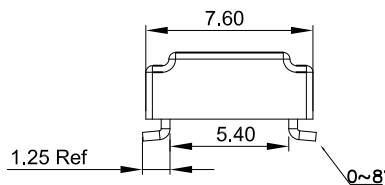
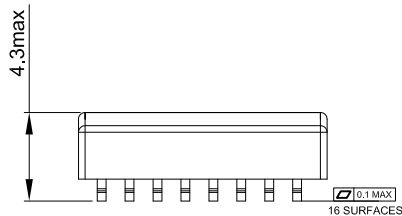
- DESIGN FOR PLC(POWER LINE COMMUNICATION) APPLICATION.
- ROHS COMPLIANT.
- REINFORCED INSULATION
- OPERATING TEMPERATURE RANGE: -40°C TO 125°C.

Electrical Specifications @25°C									
Part Number	Turns Ratio @100KHz,1V	OCL @100KHz 0.1V			IL @2MHz-200MHz	DCR @25°C			HI-POT (Pri TO Sec)
	1-2:3-4:16-15:14-13 5-6:7-8:12-11:10-9	1-2,3-4 5-6,7-8	16-15 12-11	14-13 10-9	1-4(Short2-3) To 14-13 5-8(Short7-6) To 10-9	1-2,3-4 5-6,7-8	16-15 12-11	14-13 10-9	1000Vrms, 1mA,2S
DT1142CE	1.5:1.5:1:3±5%	17uH Min	7.5uH Min	70uH Min	2.0dB Max	160mΩ Max	60mΩ Max	240mΩ Max	

MECHANICAL DIMENSIONS(unit:mm)

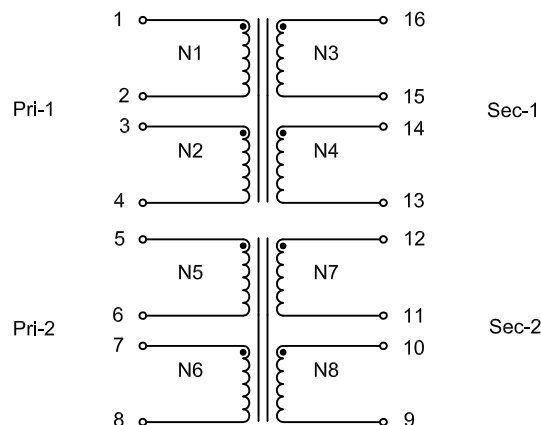


SUGGESTED PAD LAYOUT



• Unless otherwise specified all tolerances are:±0.25mm

SCHEMATICS



N1:N2:N3:N4=1.5:1.5:1:3
N5:N6:N7:N8=1.5:1.5:1:3

BROADBAND PLC TRANSFORMER

T002DG

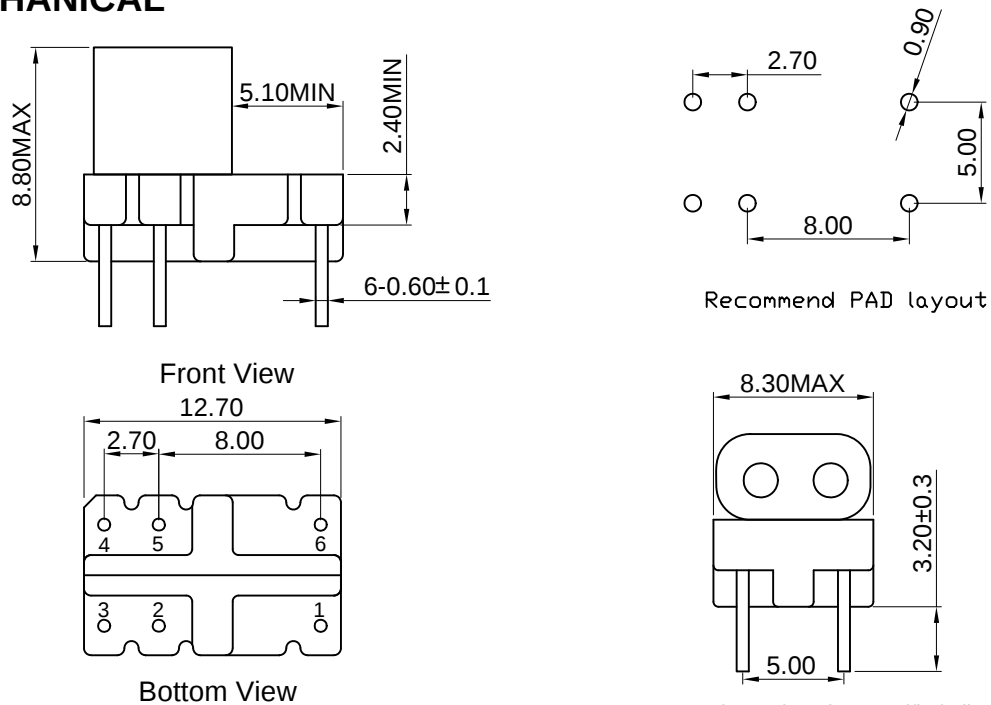
FEATURES:

- POWER LINE COMMUNICATION TRANSFORMER
- OPERATING TEMPERATURE RANGE: 0°C TO 70°C
- STORAGE TEMPERATURE RANGE: -40°C TO +85°C
- ROHS COMPLIANT

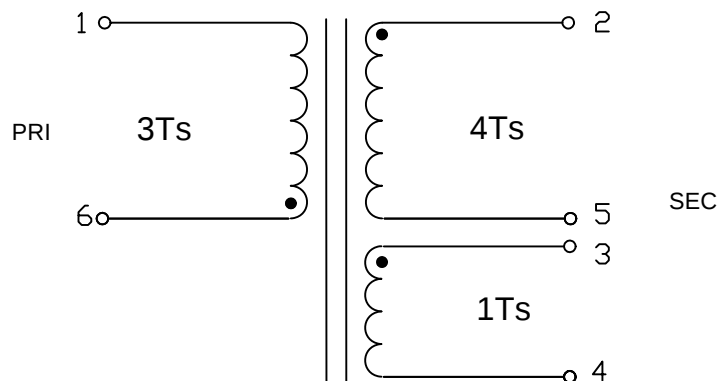


Electrical Specifications @25°C									
Part Number	Turns Ratio		OCL (@100KHz,0.1V)			Insertion Loss		Frequency Range	Hi-pot
	P1-6:P5-2	P1-6:P4-3	P1-6	P5-2	P4-3	P1-6:P5-2	P1-6:P4-3	MHz	
T002DG	3:4±5%	3:1±5%	18.3uH±45%	32.5uH±45%	2.0uH±45%	2.0dB Max	6.0dB Max	2-70	3000VAC/60S

MECHANICAL



SCHEMATICS



BROADBAND PLC TRANSFORMER

T006DG

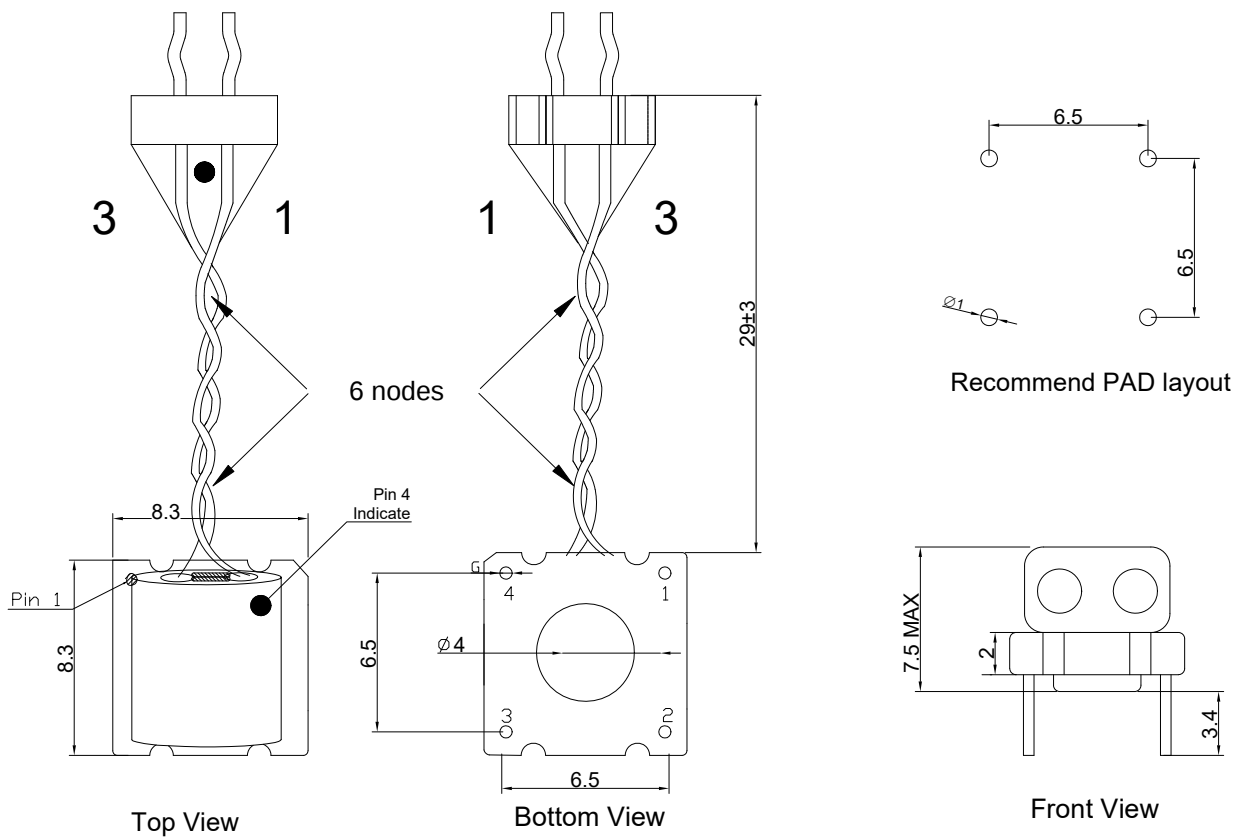
FEATURES:

- POWER LINE COMMUNICATION TRANSFORMER
- OPERATING TEMPERATURE RANGE: 0℃ TO 70℃
- STORAGE TEMPERATURE RANGE: -40℃ TO +85℃
- ROHS COMPLIANT

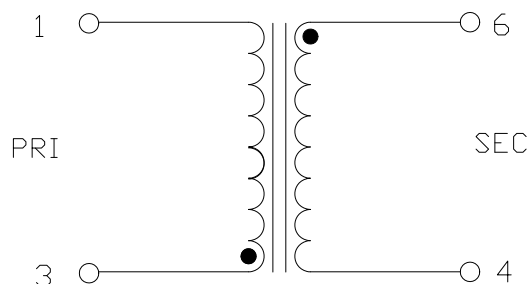


Electrical Specifications @25℃					
Part Number	Turns Ratio	OCL (@2MHz,0.1V)	Insertion Loss	Frequency Range	Hi-pot
	Pri:Sec/1-3:4-6	1-3=4-6	2-68 MHz	MHz	3000VAC/3S
T006DG	1:1±5%	12.5-30.0uH	3.0dB Max	2-68	

MECHANICAL



SCHEMATICS

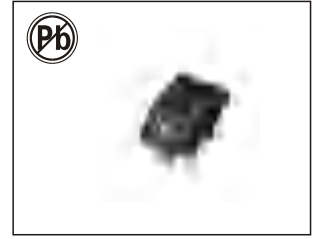


BROADBAND PLC TRANSFORMER

T008DG

FEATURES:

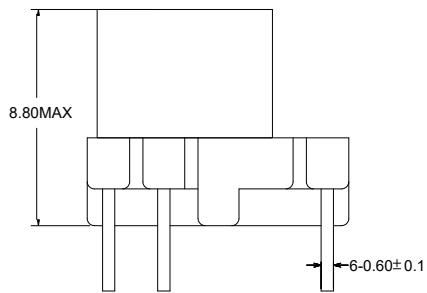
- POWER LINE COMMUNICATION TRANSFORMER
- OPERATING TEMPERATURE RANGE: 0°C TO 70°C
- STORAGE TEMPERATURE RANGE: -40°C TO +85°C
- ROHS COMPLIANT



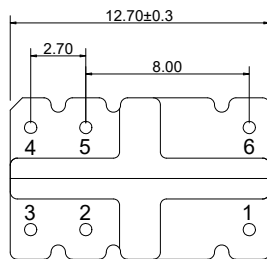
Electrical Specifications @25°C

Part Number	Turns Ratio		OCL (@10KHz,1V)	LK (@1MHz,0.1V)	DCR			Hi-pot 3750VAC 0.5mA/1S
	P1-6:P3-4	P1-6:2-5	P1-6	P1-6 (short other)	P1-6	P2-5	P3-4	
T008DG	1:1±5%	3:1±5%	9.5uH Min	225nH Max	350 mΩ Max	150 mΩ Max	300 mΩ Max	

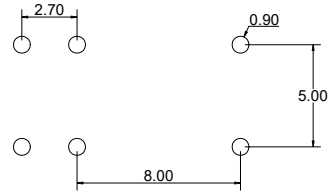
MECHANICAL



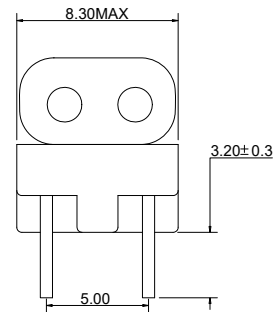
Front View



Bottom View

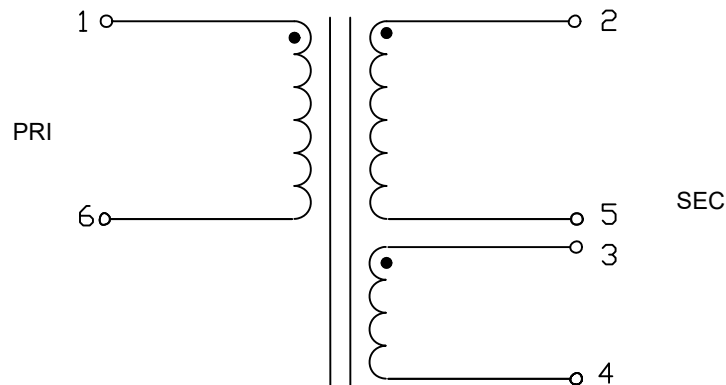


Recommend PAD layout



Unless otherwise specified all tolerances are:±0.25 in mm

SCHEMATICS

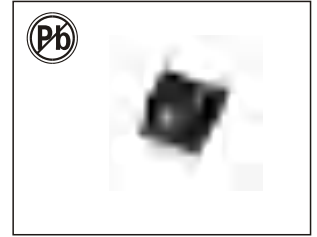


BROADBAND PLC TRANSFORMER

T012DG

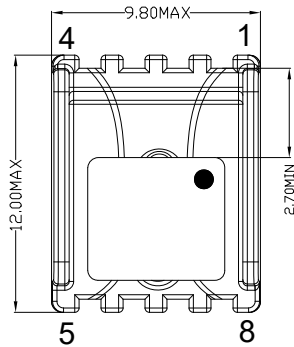
FEATURES:

- POWER LINE COMMUNICATION TRANSFORMER
- OPERATING TEMPERATURE RANGE: 0℃ TO70℃
- STORAGE TEMPERATURE RANGE: -40℃ TO +85℃
- ROHS COMPLIANT

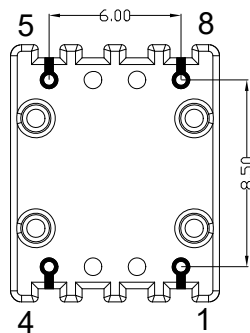


Electrical Specifications @25℃					
Part Number	Turns Ratio	OCL (@2MHz,0.1V)	Insertion Loss	Frequency Range	Hi-pot
	Pri:Sec/1-4:5-8	1-4=5-8	2-68 MHz	MHz	3000VAC/60S
T012DG	1:1±5%	21.5uH±45%	3.0dB Max	2-68	

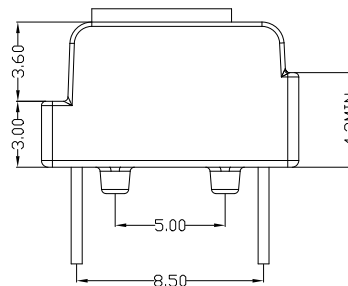
MECHANICAL



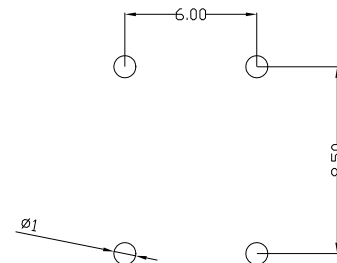
TOP VIEW



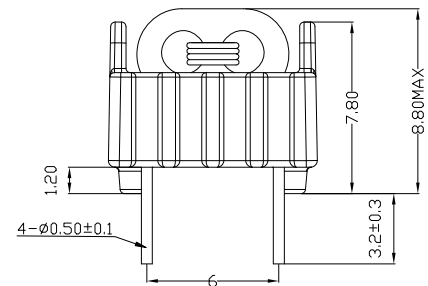
BOTTOM VIEW



SIDE VIEW



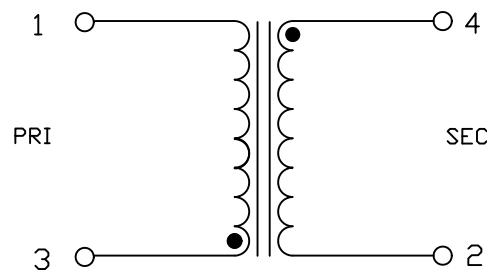
Recommend PAD layout



FRONT VIEW

Unless otherwise specified all tolerances are:±0.25 in mm

SCHEMATICS



BROADBAND PLC TRANSFORMER

T038DG

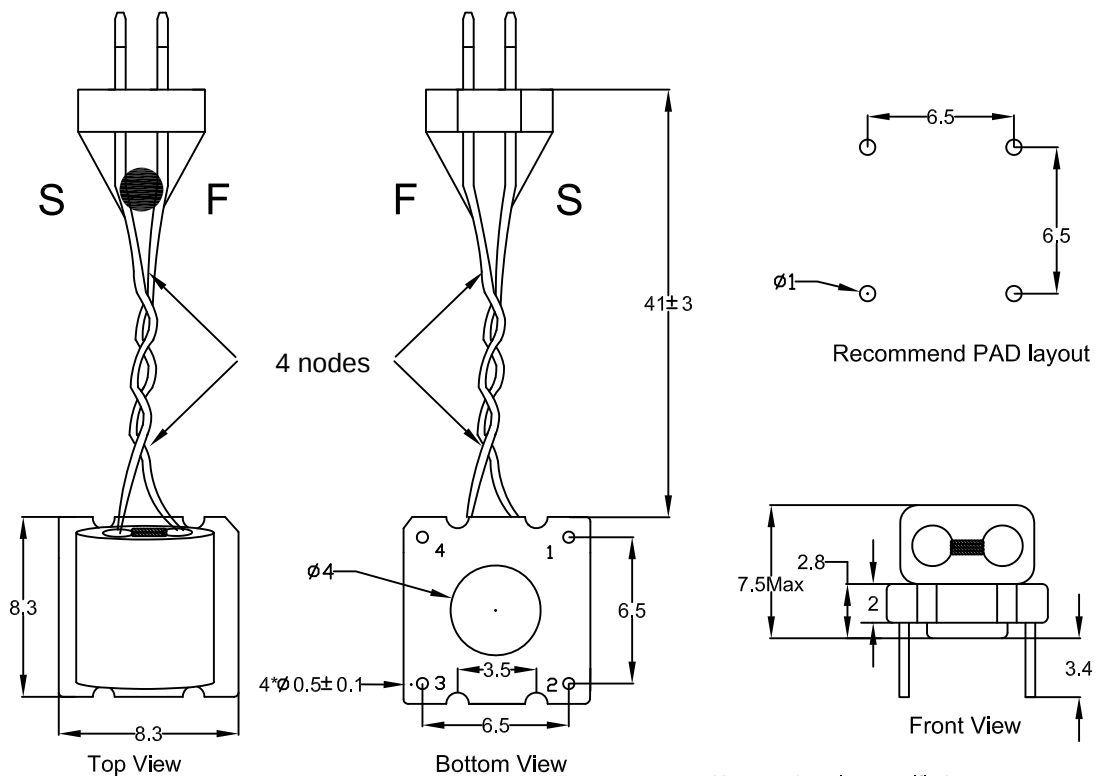
FEATURES:

- POWER LINE COMMUNICATION TRANSFORMER
- OPERATING TEMPERATURE RANGE: 0°C TO 70°C
- STORAGE TEMPERATURE RANGE: -40°C TO +85°C
- ROHS COMPLIANT



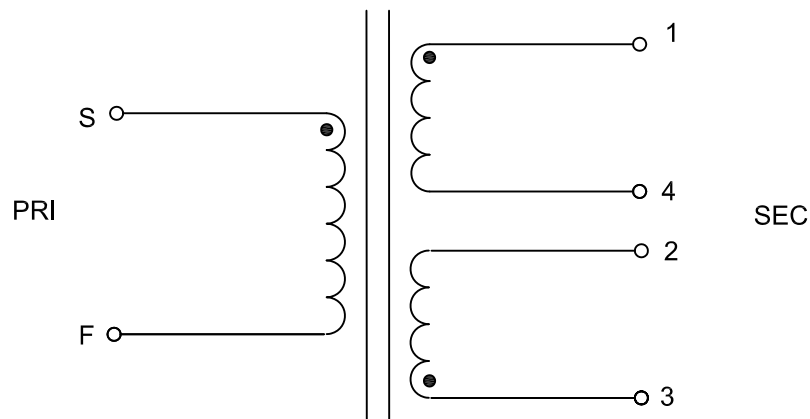
Electrical Specifications @25°C							
Part Number	Turns Ratio (@100KHz,0.1V)		OCL (@100KHz,0.1V)			Frequency Range	Hi-pot
	P(S-F):P(1-4)	P(S-F):P(3-2)	P(S-F)	P(1-4)	P(3-2)	MHz	3000VAC/3S
T038DG	3:4±5%	3:1±5%	9.5uH Min	16.9uH Min	1.05uH Min	2-30	

MECHANICAL



Unless otherwise specified all tolerances are:±0.25 in mm

SCHEMATICS

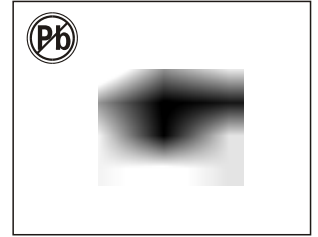


BROADBAND PLC TRANSFORMER

T047DG

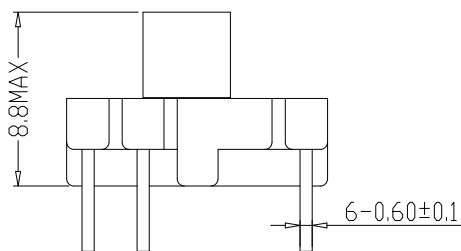
FEATURES:

- DESIGN FOR PLC(POWER LINE COMMUNICATION) APPLICATION.
- ROHS COMPLIANT.
- REINFORCED INSULATION
- OPERATING TEMPERATURE RANGE: 0°C TO 70°C.

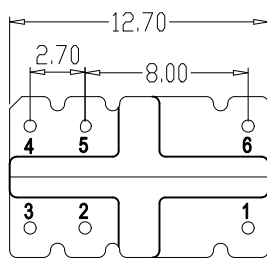


Electrical Specifications @25°C							
Part Number	Turns Ratio (@100KHz,0.1V)	OCL (@100KHz,0.1V)			DCR(@25°C		
	6-1:2-5:3-4	6-1	2-5	3-4	6-1	2-5	3-4
	(3.5:4:2)±5%	34.3uH Min	44.8uH Min	11.2uH Min	0.5Ω max	0.5Ω max	0.25Ω max
T047DG	Continue						
	Hi-pot	Insulation resistance 500VDC/1mA		INSERTION LOSS 1-6 To 2-5 (Measure back to back)		INSERTION LOSS 6-1 To 3-4 (Measure back to back)	
	6-1To 2-5,3-4	6-1To 2-5,3-4		2-68MHz		2-68MHz	
	500VDC/1mA/2S	5MΩ Min		-3.0dB Min		-6.0dB Min	

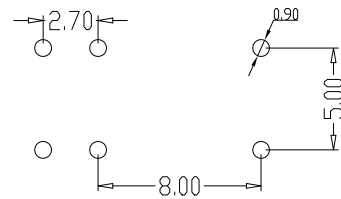
MECHANICAL DIMENSIONS(unit:mm)



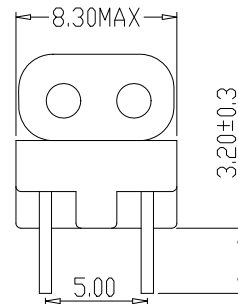
Front View



Bottom View

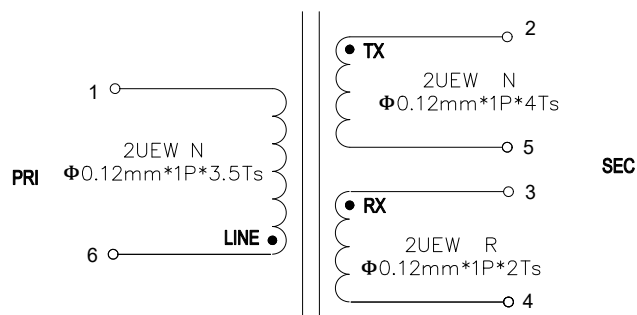


Recommend PAD layout



- Unless otherwise specified all tolerances are:±0.25mm

SCHEMATIC

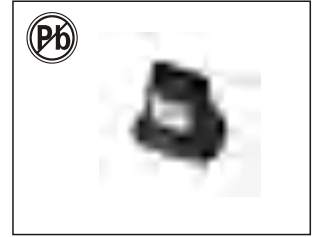


BROADBAND PLC TRANSFORMER

T049DG

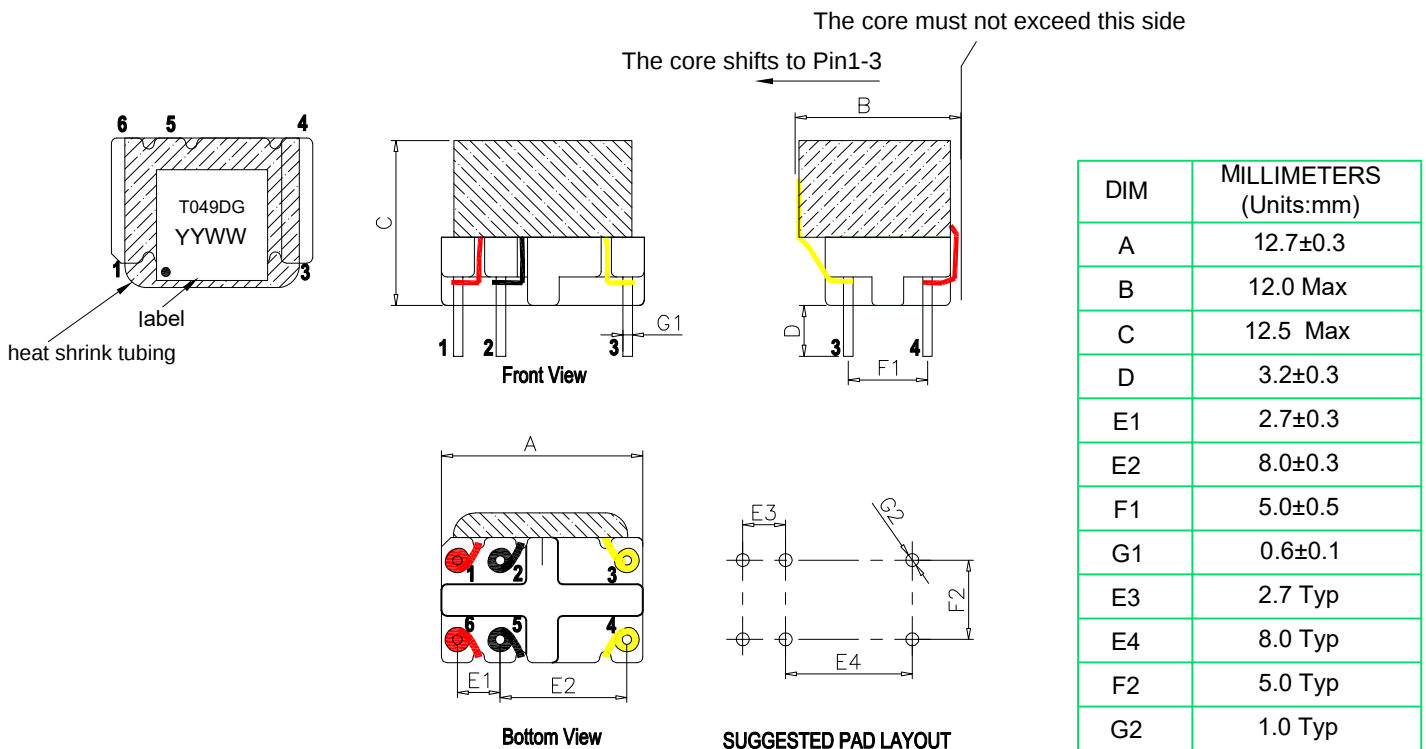
FEATURES:

- DESIGN FOR PLC(POWER LINE COMMUNICATION) APPLICATION.
- ROHS COMPLIANT.
- REINFORCED INSULATION
- OPERATING TEMPERATURE RANGE: -40℃ TO 85℃.



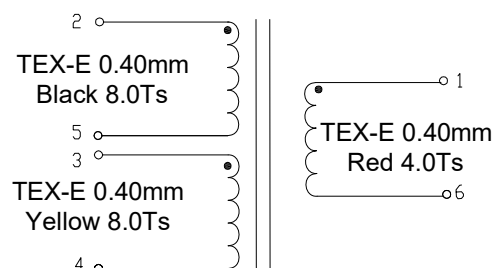
Electrical Specifications @25°C						
Part Number	Turns Ratio 100KHz,1.0V	OCL 1.0KHz,1.0V		DC Resistance		Hi-pot 3-4 To1-6, 2-5
		P1-6:P2-5:P3-4	P2-5=P3-4	P1-6	P2-5=3-4	P1-6
T049DG	1:2:2±5%	28.0uH MIN	7.0uH MIN	34mΩ MAX	22mΩ MAX	3000Vac 3mA/60S/60Hz

MECHANICAL DIMENSIONS(unit:mm)



● Unless otherwise specified all tolerances are:±0.25mm

SCHEMATIC

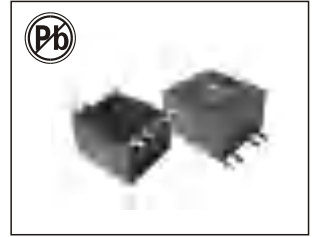


BROADBAND PLC TRANSFORMER

T096SG

FEATURES:

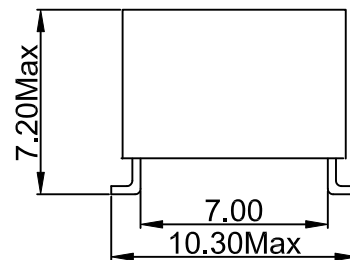
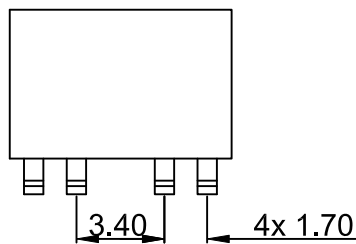
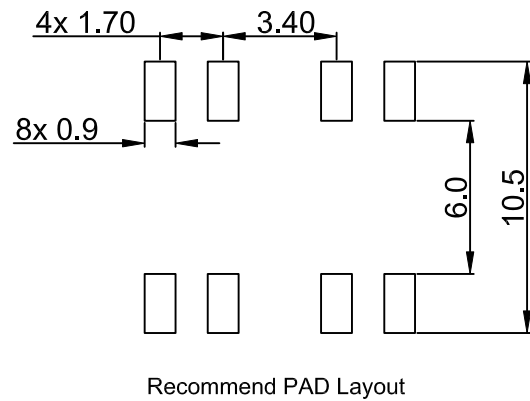
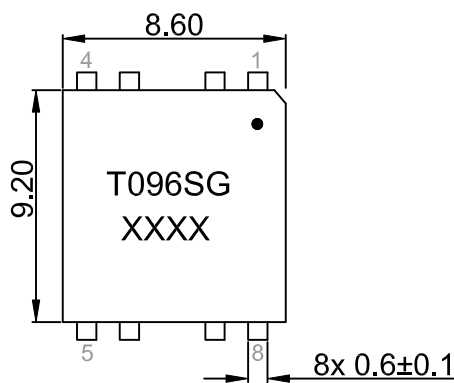
- DESIGN FOR PLC(POWER LINE COMMUNICATION) APPLICATION .
- ROHS COMPLIANT.
- SUPPLEMENTARY INSULATION.
- OPERATING TEMPERATURE RANGE: -40℃ TO +85℃.



Electrical Specifications @25℃

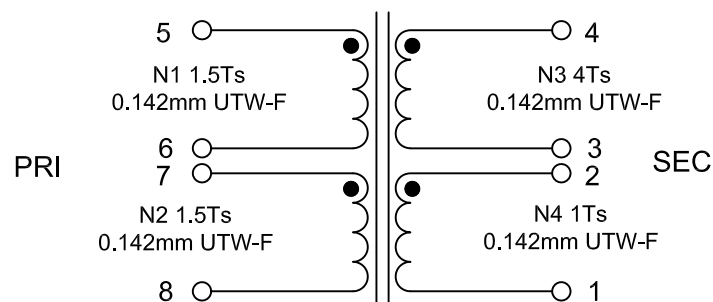
Part Number	OCL (@100KHz,1V)		Lk(@100KHz,1V)	DCR			Hi-pot
	8-5(Shorted6-7)	3-4	3-4	5-8(Shorted6-7)	3-4	1-2	PRI TO SEC 3750VAC/1S
T096SG	1.4uH Min	2.5uH Min	300nH Max	0.095ohm MAX	0.075ohm MAX	0.045ohm MAX	

MECHANICAL DIMENSIONS(unit:mm)



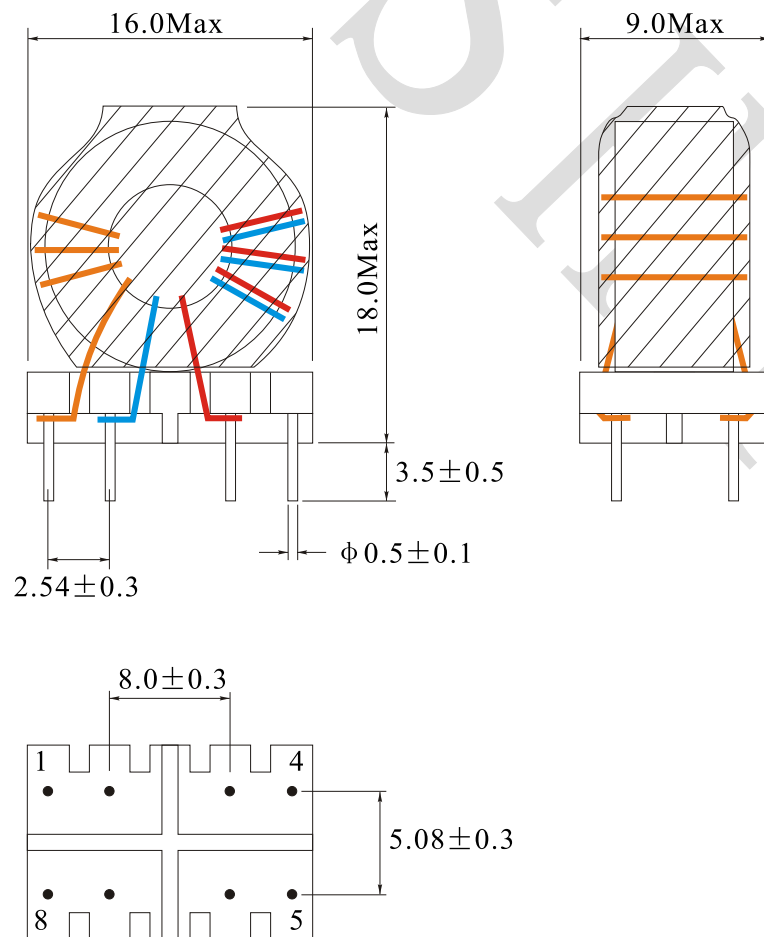
• Unless otherwise specified all tolerances are:±0.25mm

SCHEMATIC

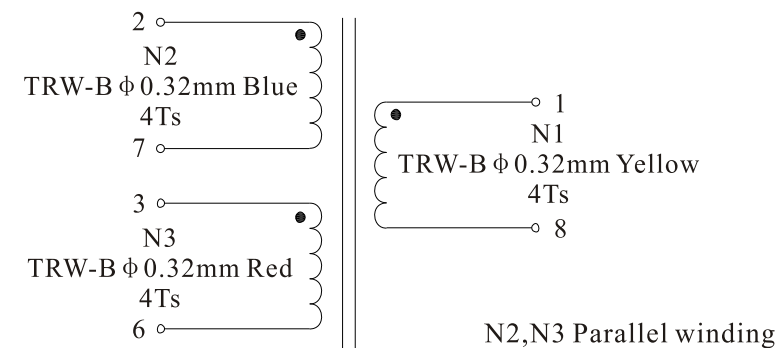


Rev.	Description	Date
A0	New release	2023.05.10

1. PHYSICAL CHARACTERISTICS (mm)



2. ELECTRONICAL SCHEMATIC



3. ELECTRONICAL SPECIFICATIONS

Turns ratio: (1-8):(2-7):(3-6)=1:1:1

Inductance(each winding): 7.0uH±30%@1.0KHz,1V

DCR(each winding): 30mΩ Max

Hi-Pot: 3000Vac,5mA,60S Coil to Core

3000Vac,5mA,60S Pin1,2,7,8 to Pin 3,6

Operating temperature: -40℃ to +105℃

Sotrage temperature: -20℃ to +65℃

NAME:	Isolation transformers for broadband PLC system		
CUSTOMER P/N:		DATE:	2023-05-10
SHINHOM P/N:	T1025	REV: A0	PAGE
DRAWN BY	CHECKED BY	APPROVE BY	



SHINHOM
SHAANXISHINHOM ENTERPRISE CO LTD

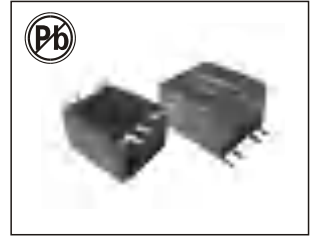
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BROADBAND PLC TRANSFORMER

T105SG

FEATURES:

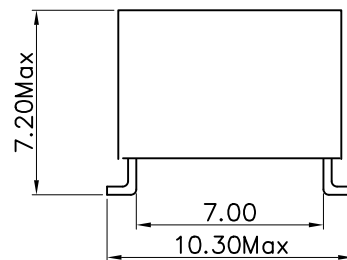
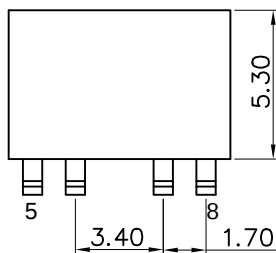
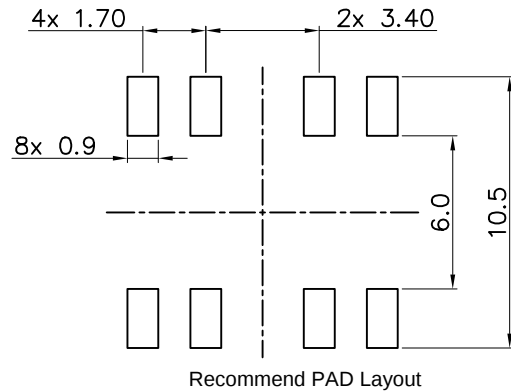
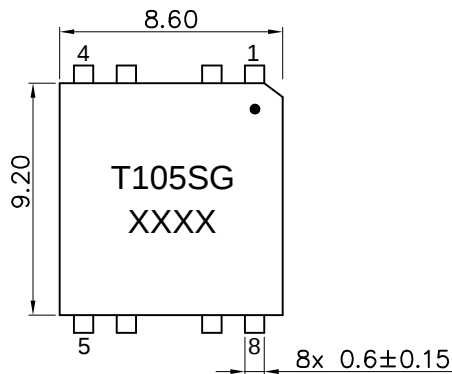
- DESIGN FOR PLC(POWER LINE COMMUNICATION) APPLICATION .
- ROHS COMPLIANT.
- SUPPLEMENTARY INSULATION.
- OPERATING TEMPERATURE RANGE: -40℃ TO +85℃.



Electrical Specifications @25℃

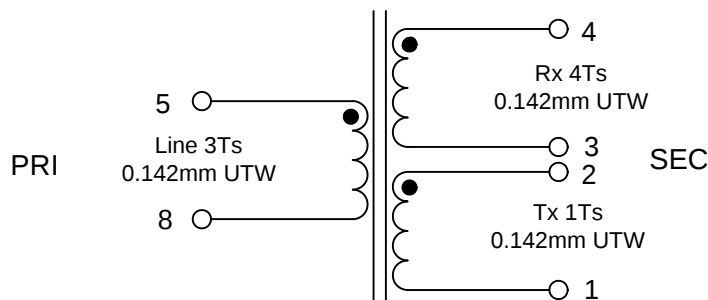
Part Number	OCL (@100KHz,1V)		LK(@100KHz,1V)	DCR			Hi-pot
	8-5	3-4	3-4	5-8	3-4	1-2	pri to sec 3750VAC/2S
T105SG	1.4uH Min	2.5uH Min	300nH Max	0.095ohm MAX	0.075ohm MAX	0.045ohm MAX	

MECHANICAL DIMENSIONS(unit:mm)



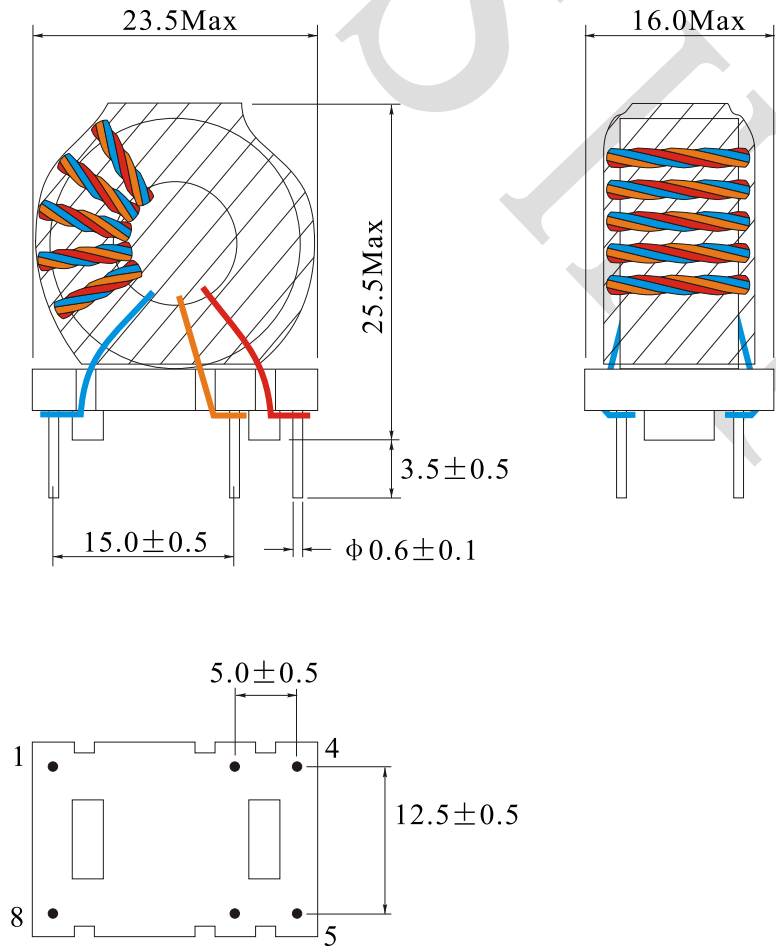
● Unless otherwise specified all tolerances are:±0.25 mm

SCHEMATICS

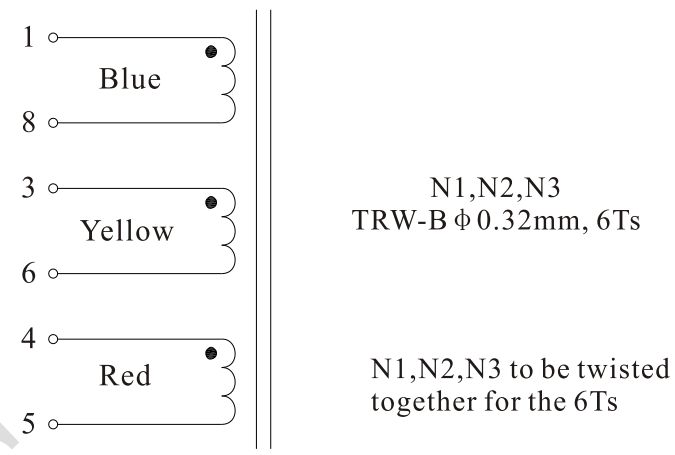


Rev.	Description	Date
A0	New release	2023.05.10

1.PHYSICAL CHARACTERISTICS(mm)



2.ELECTRONICAL SCHEMATIC



3.ELECTRONICAL SPECIFICATIONS

Turns ratio: (1-8):(3-6):(4-5)=1:1:1
Inductance(each winding): 16.5uH±30%@1.0KHz,1V
DCR(each winding): 41mΩ Max
Hi-Pot: 6000Vac,5mA,60S Coil to Core
Operating temperature: -40℃ to +105℃
Sotrage temperature: -20℃ to +65℃

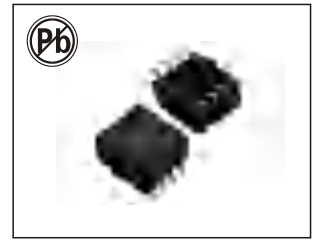
NAME:	Isolation transformers for broadband PLC system		
CUSTOMER P/N:		DATE:	2023-05-10
SHINHOM P/N:	T1099	REV: A0	PAGE
DRAWN BY	CHECKED BY	APPROVE BY	

BROADBAND PLC TRANSFORMER

T1110CA

FEATURES:

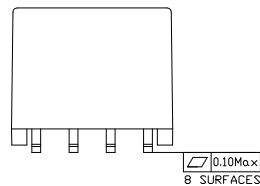
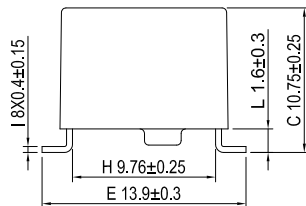
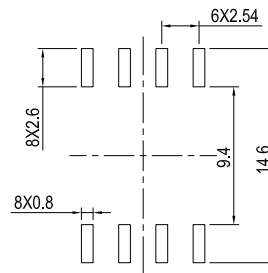
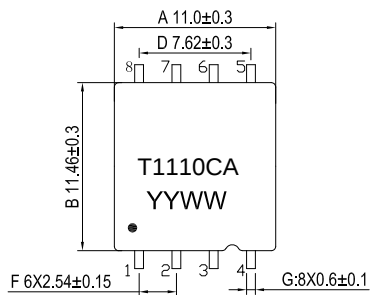
- OPERATING TEMPERATURE RANGE: -40℃ TO+125℃
- SURFACE MOUNT DEVICE PROVIDING COMPACT FOOTPRINT
- ROHS COMPLIANT



ELECTRICAL SPECIFICATIONS @25°C

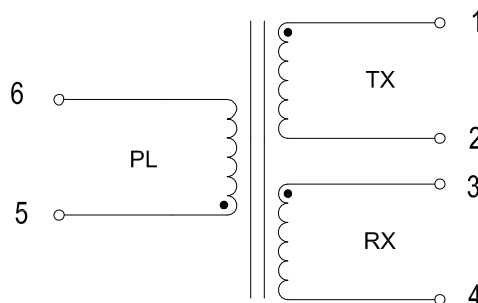
Part Number	Turns Ratio @100KHz, 1V	OCL @1MHz 0.1V	OCL@1MHz 0.1V -40℃TO+85℃	L.L @1MHz 0.1V	DCR @25°C	
	1-2:3-4:5-6	1-2,5-6	1-2,5-6	5-6(short1+2+3+4)	1-2,5-6	3-4
T1110CA	1:3:1±5%	16uH Min	10uH Min	0.2uH Max	0.22Ω Max	0.5Ω Max
	CWW@100kHz,1V	Insertion los @0.5-30MHz	Return loss @0.5-30MHz	IR	HI-POT (PLTo TX, TX)	
	1-6(short2+3)	5-6 To 1-2	5-6 To 1-2	500VDC	3000Vrms, 1mA,60S	
	15pF Max	-1.0dB MAX	-10.0dB Min	100MΩ MIN		

MECHANICAL DIMENSIONS



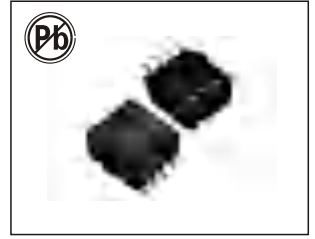
● Unless otherwise specified all tolerances are:±0.25mm

SCHEMATICS



DUAL BROADBAND PLC TRANSFORMER

T1113CE

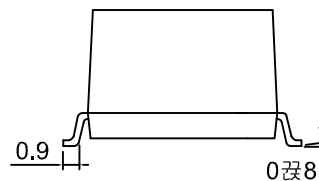
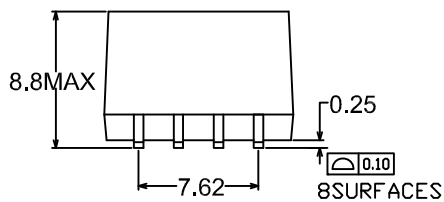
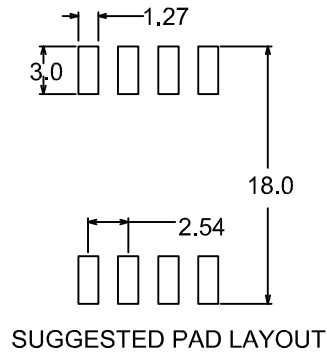
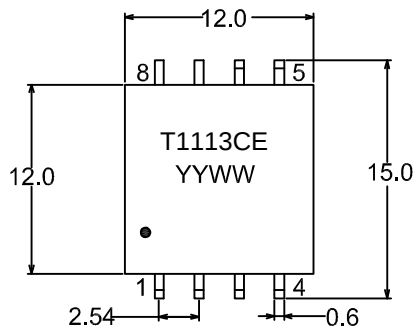


FEATURES:

- Design For PLC(power line communication) Application.
- RoHS Compliance Product
- Surface Mount Device Providing Compact Footprint
- Operating Temperature Range: -40°C TO +85°C.

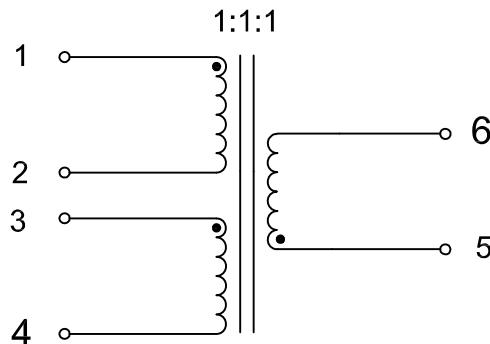
Electrical Specifications @25°C							HI-POT (1mA,1S)
Part Number	Turns Ratio @100KHz,1.0V	OCL @100KHz 0.1V 15mA	L.L @100KHz 0.1V	C _{ww} @100kHz 0.1V	Insertion loss @2-21MHZ dB Max	Return loss @2-21MHZ dB Min	
	1-2:3-4:5-6	1-2,3-4,5-6	1-4(short2-3,5-6)	1-6			
T1113CE	1:1:1±5%	15uH Min	0.5uH Max	10pF Max	3.0	9.0	6000V DC

MECHANICAL DIMENSIONS(unit:mm)



● Unless otherwise specified all tolerances are:±0.25mm

SCHEMATICS

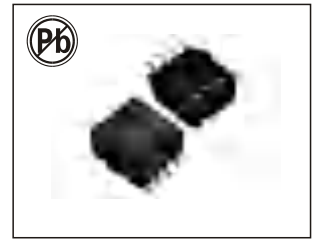


BROADBAND PLC TRANSFORMER

T1116CE

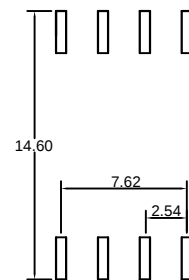
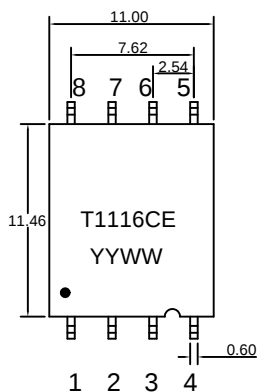
FEATURES:

- DESIGN FOR PLC(POWER LINE COMMUNICATION) APPLICATION.
- ROHS COMPLIANT.
- REINFORCED INSULATION
- OPERATING TEMPERATURE RANGE: -40℃ TO 85℃.

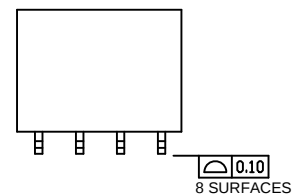
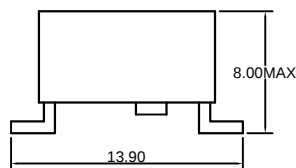


Electrical Specifications @25°C					
Part Number	Turns Ratio @100KHz,0.1V	OCL @100KHz 0.1V	L.L @100KHz 0.1V	Insertion loss	IR (Pri TO Sec)
	1-2:3-4:5-8	1-2,3-4,5-8	5-8(short1+2+3+4)	0.5-20MHz	500VDC 100MΩ Min
T1116CE	1:1:1±2%	250uH Min	1.0uH Max	1.0dB MAX	
	Continue				
	DCR @25°C		Cww @100KHz 1V	Return loss	HI-POT (Pri TO Sec)
	1-2,3-4	5-8	1-8	0.5-20MHz	3000Vrms, 0.5mA,60S
	0.4Ω Max	0.5Ω Max	15pF Max	14dB Min	

MECHANICAL

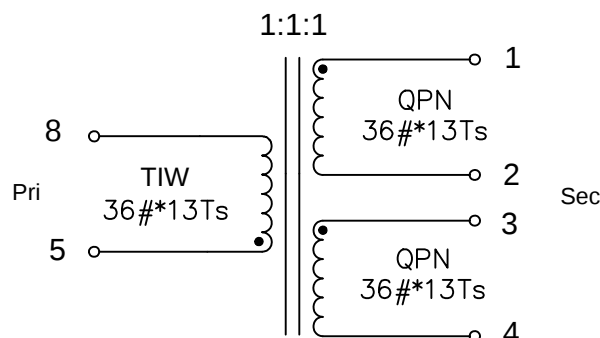


SUGGESTED PAD LAYOUT



Unless otherwise specified all tolerances are:±0.25 in mm

SCHEMATICS

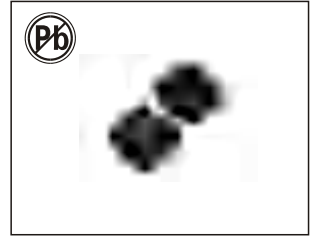


BROADBAND PLC TRANSFORMER

T1117CA

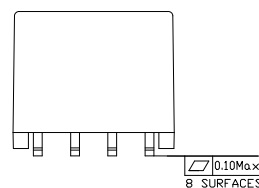
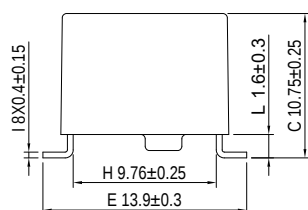
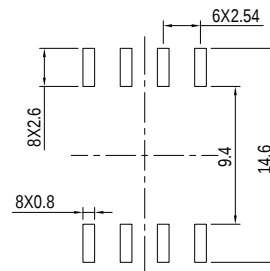
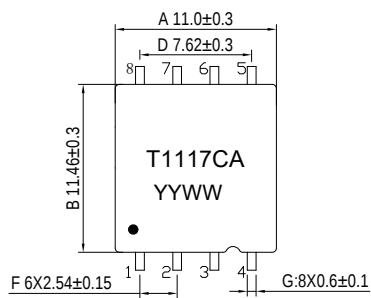
FEATURES:

- DESIGN FOR PLC(POWER LINE COMMUNICATION) APPLICATION.
- ROHS COMPLIANT.
- REINFORCED INSULATION
- OPERATING TEMPERATURE RANGE: -40℃ TO 85℃.



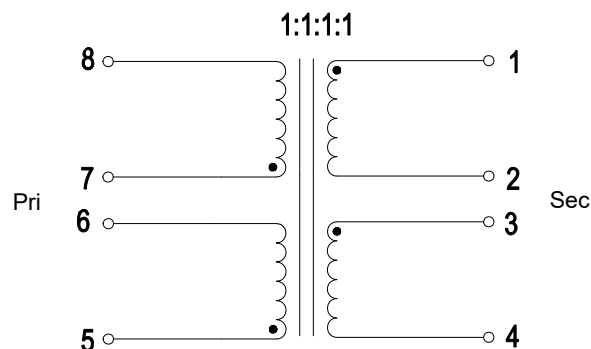
ELECTRICAL SPECIFICATIONS @25°C					
Part Number	Turns Ratio @100KHz,1V	OCL @100KHz 0.1V	L.L @100KHz 0.1V	DCR @25°C	HI-POT (Pri To Sec)
	1-2:3-4:5-6:7-8	1-2,3-4,5-6,7-8	5-8(short1+2+3+4,6+7)	1-2,3-4,5-6,7-8	3000Vrms, 1mA,60S
T1117CA	1:1:1:1±5%	250uH Min	1.0uH Max	0.4Ω Max	
	CWW@100kHz,1V 1-8(short2+3,6+7)	Insertion loss @0.5-30MHz	Return loss @0.5-30MHz	IR	
	25pF Max	-1.0dB MAX	-14dB Min	100MΩ MIN	

MECHANICAL DIMENSIONS



● Unless otherwise specified all tolerances are:±0.25mm

SCHEMATICS

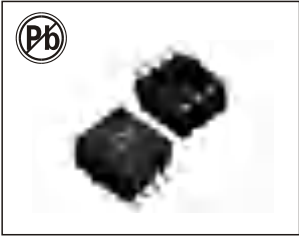


BROADBAND PLC TRANSFORMER

T1118CA

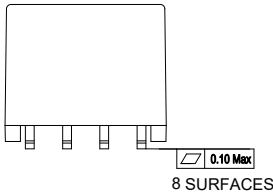
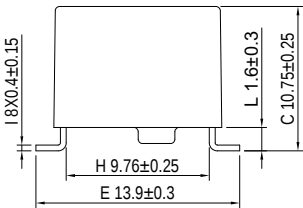
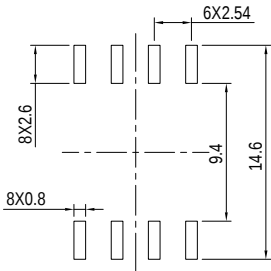
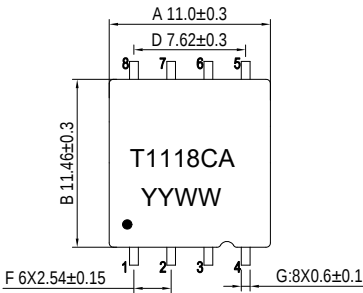
FEATURES:

- OPERATING TEMPERATURE RANGE: -40℃ TO+125℃
- SURFACE MOUNT DEVICE PROVIDING COMPACT FOOTPRINT
- ROHS COMPLIANT



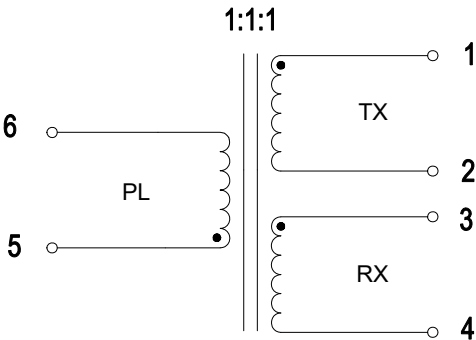
ELECTRICAL SPECIFICATIONS @25°C						
Part Number	Turns Ratio @100KHz,1V	OCL @100KHz 0.1V	L.L @100KHz 0.1V	DCR @25°C		HI-POT (PLTo TX, TX)
	1-2:3-4:5-6	1-2,3-4,5-6	5-6(short1+2+3+4)	1-2,3-4	5-6	3000Vrms, 1mA,60S
T1118CA	1:1:1±5%	250uH Min	1.0uH Max	0.4Ω Max	0.5Ω Max	
	CWW@100kHz,1V	Insertion loss @0.5-30MHz	Return loss @0.5-30MHz	IR		
	1-5(short2+3)			500VDC		
	15pF Max	-1.0dB MAX	-14dB Min	100MΩ MIN		

MECHANICAL DIMENSIONS



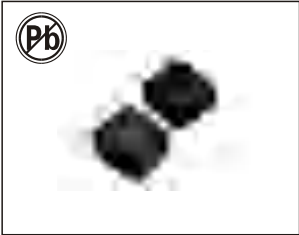
● Unless otherwise specified all tolerances are:±0.25mm

SCHEMATICS



BROADBAND PLC TRANSFORMER

T1134CE

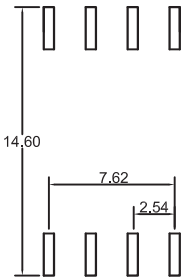
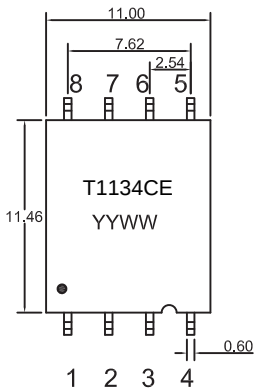


FEATURES:

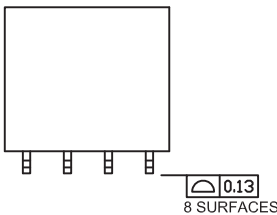
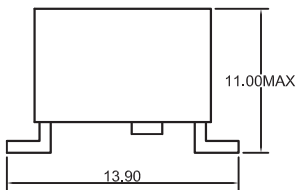
- DESIGN FOR PLC(POWER LINE COMMUNICATION) APPLICATION.
- ROHS COMPLIANT.
- REINFORCED INSULATION
- OPERATING TEMPERATURE RANGE: -40℃ TO 85℃.

Electrical Specifications @25°C						
Part Number	Turns Ratio @100KHz,0.1V	OCL @100KHz 0.1V	L.L @100KHz 0.1V	DCR @25°C		HI-POT (Pri TO Sec)
	1-2:3-4:5-8	1-2,3-4,5-8	5-8(short1+2+3+4)	1-2,3-4	5-8	3000Vrms, 0.5mA,60S
T1134CE	1:1:1±5%	250uH Min	1.0uH Max	0.4Ω Max	0.5Ω Max	
	CWW@100kHz,1V	Insertion loss @0.5-20MHz	Return loss @0.5-20MHz	IR		
	1-8(short2+3)			500VDC		
	15pF Max			100MΩ MIN		

MECHANICAL DIMENSIONS(unit:mm)

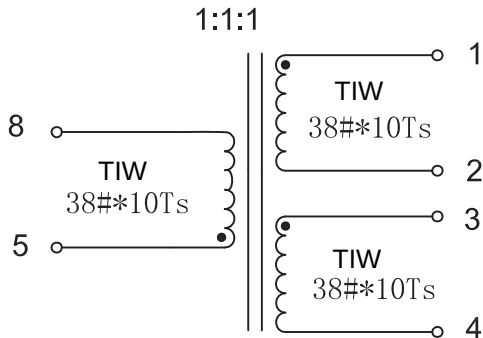


SUGGESTED PAD LAYOUT



● Unless otherwise specified all tolerances are:±0.25 mm

SCHEMATICS

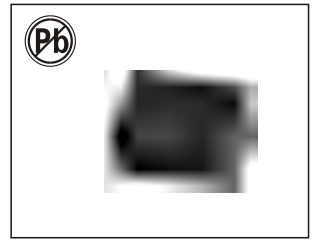


BROADBAND PLC TRANSFORMER

T1150CE

FEATURES:

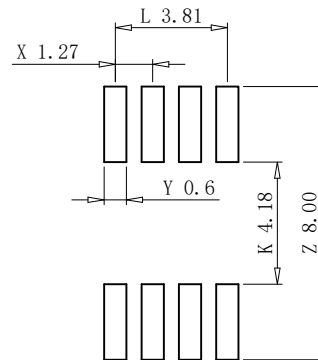
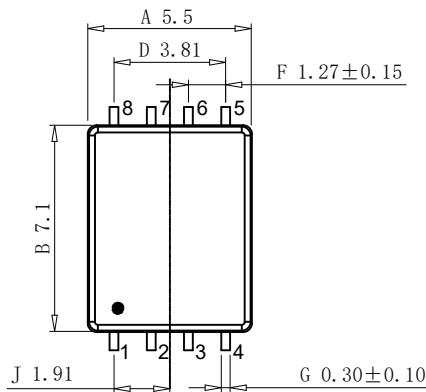
- DESIGN FOR PLC(POWER LINE COMMUNICATION) APPLICATION.
- ROHS COMPLIANT.
- REINFORCED INSULATION
- OPERATING TEMPERATURE RANGE: -40℃ TO 85℃.



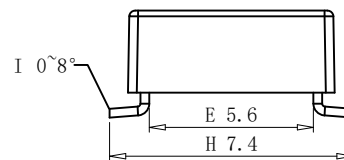
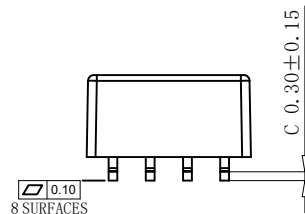
Electrical Specifications @25℃

Part Number	Turns Ratio @100KHz,0.1V	OCL @100KHz 0.1V	L.L @100KHz 0.1V	IL(	RL	DCR @25℃		HI-POT (Pri TO Sec)
	1-2;3-4;5-8	1-2;3-4;5-8	5-8(short1+2+3+4)	500KHz~20MHz		1-4(short2+3)	5-8	1500Vrms, 0.5mA,60S
T1150CE	1:1:1±5%	250uH Min	1.0uH Max	1.0dB Max	14dB Min	0.40Ω Max	0.20Ω Max	

MECHANICAL DIMENSIONS(unit:mm)

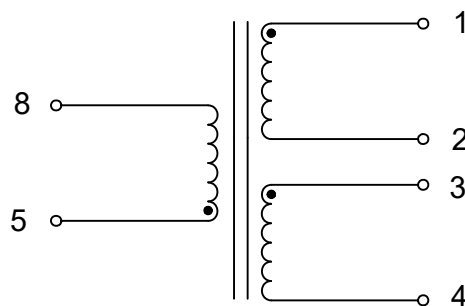


SUGGESTED PAD LAYOUT



● Unless otherwise specified all tolerances are:±0.25mm

SCHEMATIC

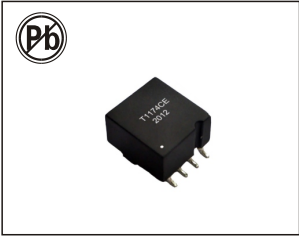


BROADBAND PLC TRANSFORMER

T1174CE

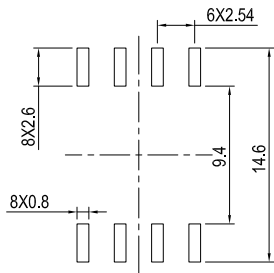
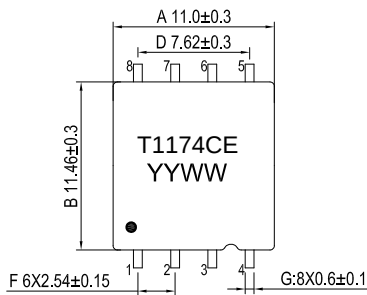
FEATURES:

- DESIGN FOR PLC(POWER LINE COMMUNICATION) APPLICATION.
- ROHS COMPLIANT.
- REINFORCED INSULATION
- OPERATING TEMPERATURE RANGE: -40℃ TO 85℃.

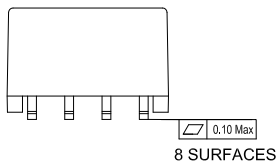
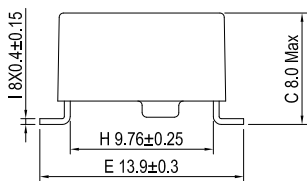


Electrical Specifications @25°C								
Part Number	Turns Ratio (100KHz,1V)	OCL (100KHz,0.1V)	LL (100KHz,0.1V)	Cww (100KHz,0.1V)	DCR	Insertion loss @2-80MHz	Return loss @2-80MHz	Hi-Pot
T1174CE	8-1:2-7:3-6:4-5	8-1,2-7,3-6,4-5	8-1 (tie2-7,3-6,4-5)	1-2 (tie7+3,6+4)	8-1,2-7,3-6,4-5	8-1 To 2-7,3-6,4-5	8-1 To 2-7,3-6,4-5	Pri TO Sec
	1:1:1:1±2%	300uH Min	0.6uH Max	25pF Max	0.5Ω Max	-1.4dB Max	-15dB Min	1500VAC 1.0mA,60S

MECHANICAL DIMENSIONS(unit:mm)

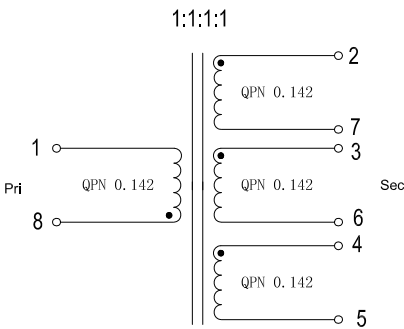


SUGGESTED PAD LAYOUT



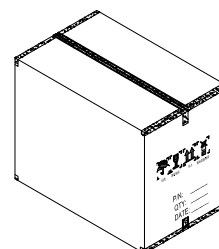
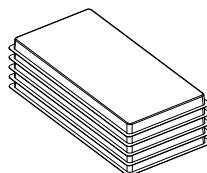
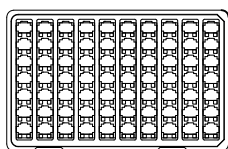
● Unless otherwise specified all tolerances are:±0.25 mm

SCHEMATICS



PACKING:

☐ Tray:

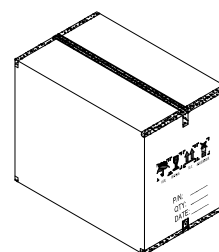
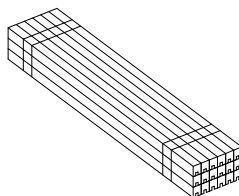


Q'ty

_____ PCS Per Tray

_____ PCS Per Carton

☐ Tube:

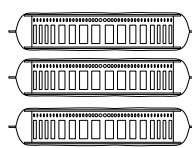
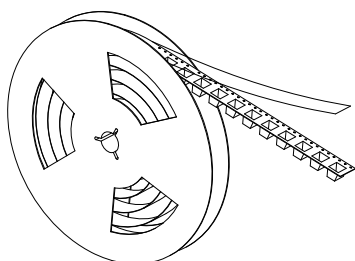


Q'ty

_____ PCS Per Tube

_____ PCS Per Carton

☒ Reel:



Vacuumize Package

Q'ty

400 PCS Per Reel

2800 PCS Per Carton

MOISTURE SENSITIVE LEVEL:

1. Level:1
- 2.Shelf Life:Unlimited
- 3.Storage Condition:≤30℃/85% RH

RECOMMENDED SOLDERING PROFILE:

☒ 1. Reflow soldering profile(According to IPC/JEDEC J-STD-020C)

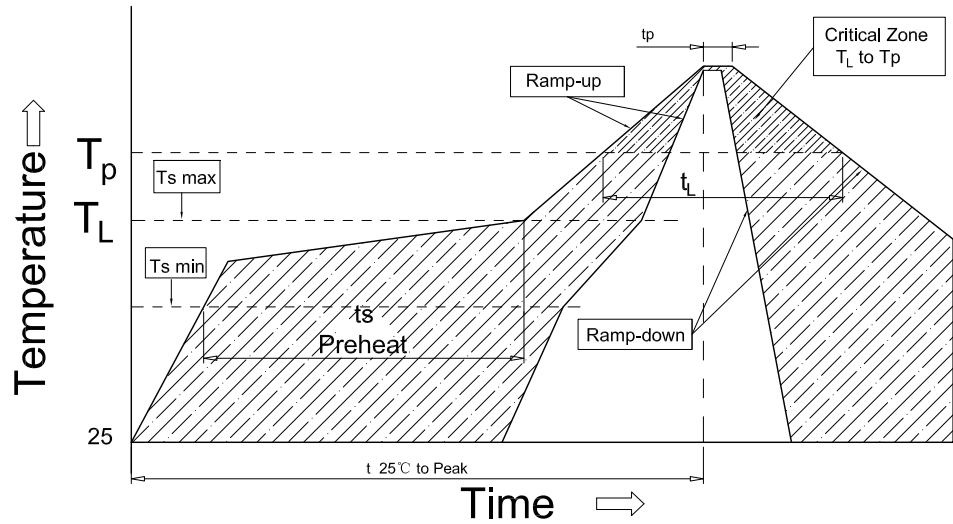


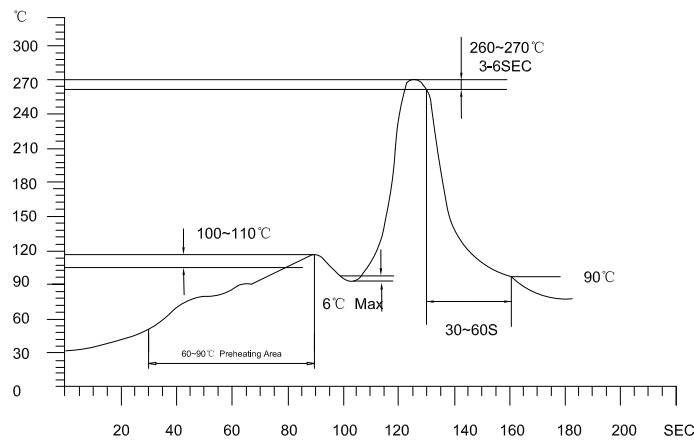
Table 1-1 Classification Reflow Profiles

Profile Feature	Sn-Pb Eutectic Assembly	Pb-Free Assembly
Average Ramp-Up Rate (T_{smax} to T_p)	3°C/second max	3°C/second max
Preheat		
-Temperature Min (T_{smin})	100°C	150°C
-Temperature Max (T_{smax})	150°C	200°C
-Time (t_{smin} to t_{smax})	60-120 seconds	60-180 seconds
Time maintained above:	183°C	217°C
-Temperature (T_L)	60-150 seconds	60-150 seconds
-Time (t_L)		
Peak/Classification Temperature(T_p)	See IPC/JEDEC J-STD-020C Table 4-1	See IPC/JEDEC J-STD-020C Table 4-2
Time within 5°C of actual Peak Temperature(t_p)	10-30 seconds	20-40 seconds
Ramp-Down Rate	6°C/second max	6°C/second max
Time 25°C to Peak Temperature	6 minutes max	8 minutes max

Note1: All temperatures refer to topside of the package, measured on the package body surface

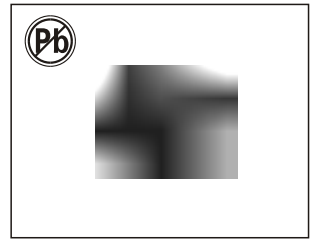
- Suggested soldering process: Reflow soldering
Solder Paste: Sn96.5Ag3.0Cu0.5
Silkscreen thickness: 0.15mm Min.

☐ 2. Wave soldering profile



DUAL BROADBAND PLC TRANSFORMER

T1175CE

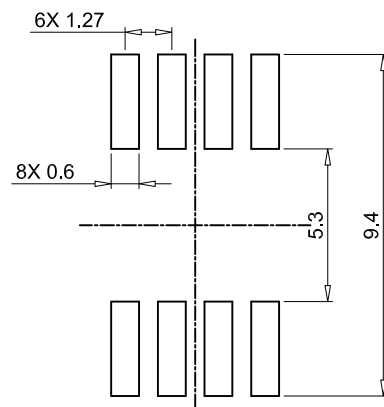
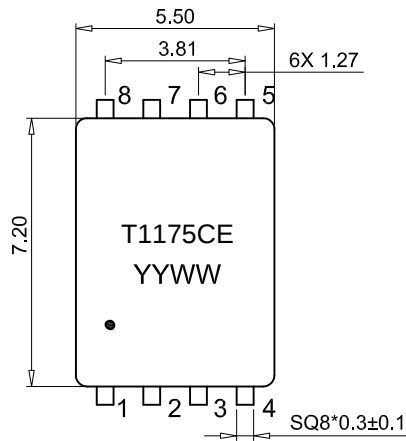


FEATURES:

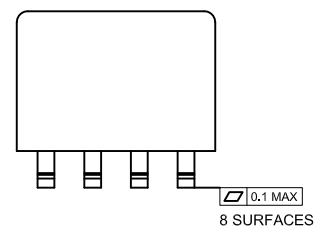
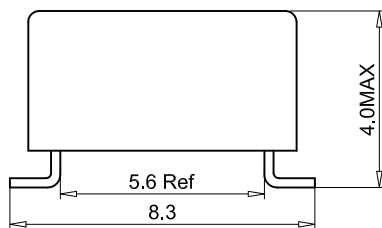
- DESIGN FOR PLC(POWER LINE COMMUNICATION) APPLICATION.
- ROHS COMPLIANT.
- REINFORCED INSULATION
- OPERATING TEMPERATURE RANGE: -40℃ TO 125℃.

Electrical Specifications @25°C							
Part Number	Turns Ratio @100KHz,1V	OCL @100KHz 0.1V	LK @100KHz 0.1V	DCR @25°C	IL @2MHz-200MHz	RL @2MHz-200MHz	HI-POT (Pri TO Sec)
	1-4:7-8:5-6	1-4,7-8,5-6	1-4(Short 5-6-7-8)	1-4,7-8,5-6	1-4 To 5-6 1-4 To 7-8	1-4 To 5-6 1-4 To 7-8	1500Vrms, 1mA,2S
T1175CE	1:1:1±5%	28uH Min	0.2uH Max	120mΩ Max	2.0dB Max	14.0dB Min	

MECHANICAL DIMENSIONS(unit:mm)

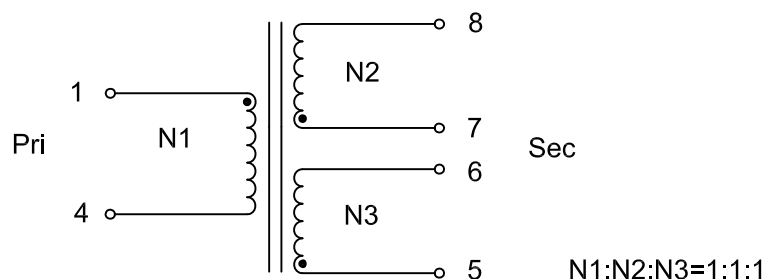


SUGGESTED PAD LAYOUT



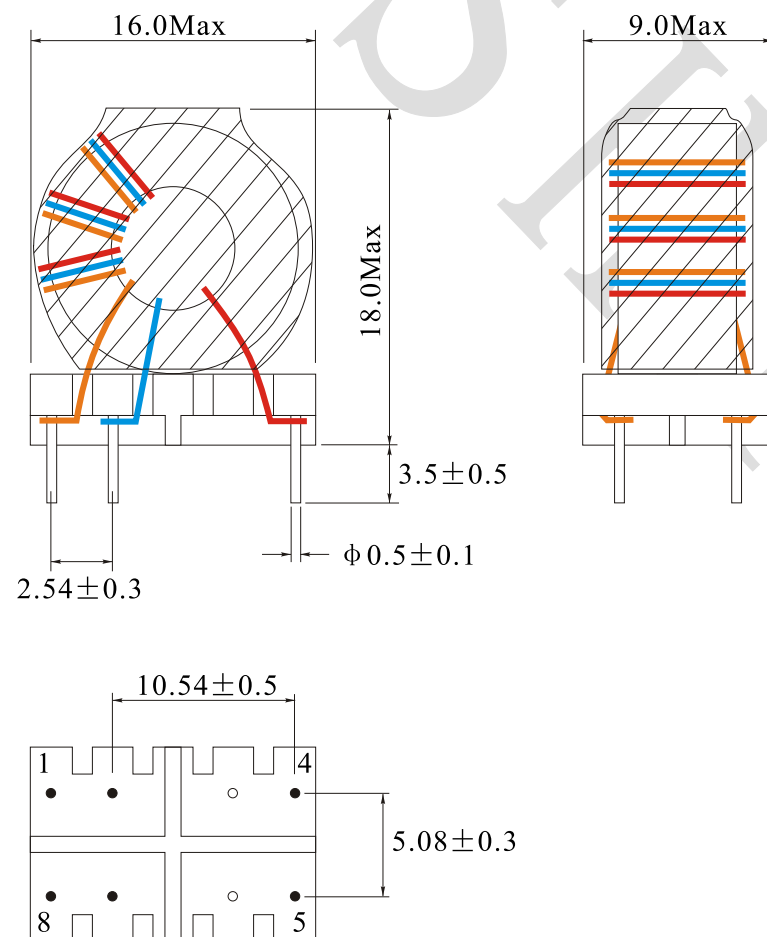
- Unless otherwise specified all tolerances are:±0.25mm

SCHEMATICS

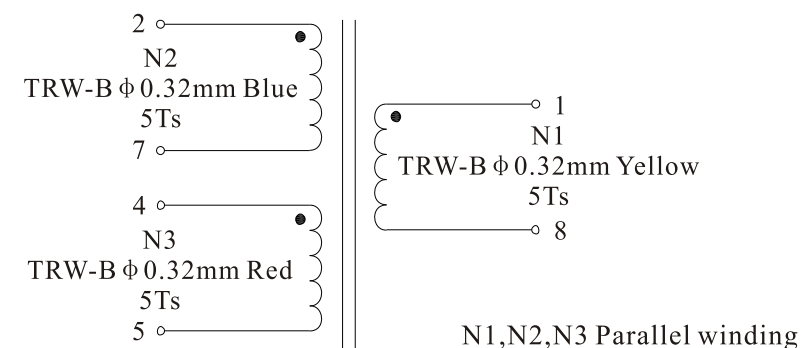


Rev.	Description	Date
A0	New release	2023.05.10

1. PHYSICAL CHARACTERISTICS (mm)



2. ELECTRICAL SCHEMATIC



3. ELECTRICAL SPECIFICATIONS

Turns ratio: (1-8):(2-7):(4-5)=1:1:1

Inductance(each winding): 10.9uH±30%@1.0KHz,1V

DCR(each winding): 30mΩ Max

Hi-Pot: 3000Vac,5mA,60S Coil to Core

5600Vac,5mA,60S Pin1,2,7,8 to Pin 4,5

Operating temperature: -40℃ to +105℃

Sotrage temperature: -20℃ to +65℃

NAME:	Isolation transformers for broadband PLC system		
CUSTOMER P/N:		DATE:	2023-05-10
SHINHOM P/N:	T1246	REV: A0	PAGE
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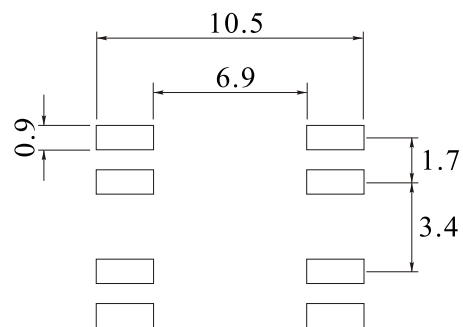
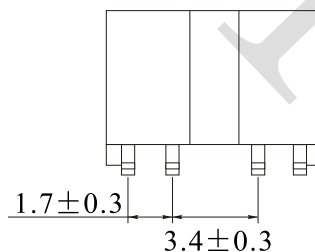
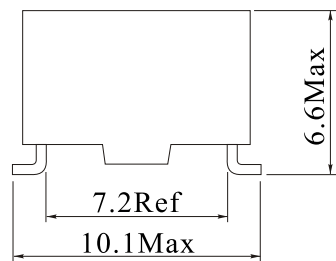
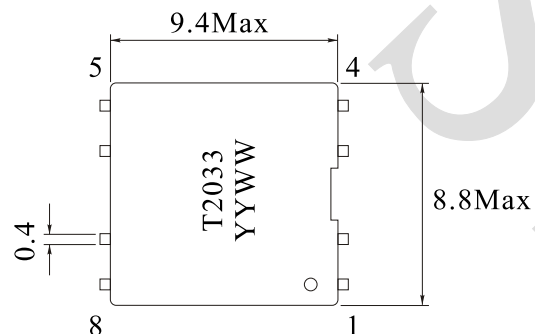


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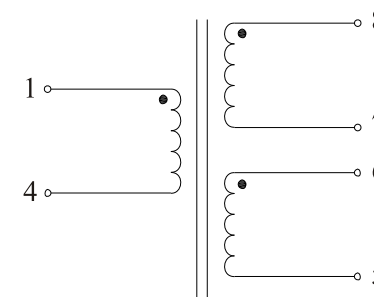
Rev.	Description	Date
A0	New release	2023.05.10

1. PHYSICAL CHARACTERISTICS (mm)



Land pattern

2. ELECTRICAL SCHEMATIC



3. ELECTRICAL SPECIFICATIONS

Turns ratio: (1-4):(8-7)=1:1

(1-4):(6-5)=3:1

Inductance(1-4): 14.0uH Min@10KHz,0.1V

LK(1-4): 225nH Max@1.0MHz,0.1V, tie other pins

Interwinding capacitance(1-8): 6pF Max, tie 7-6@100KHz,0.1V

DCR(1-4): 0.35 Ω Max

(8-7) 0.3 Ω Max

(6-5) 0.15 Ω Max

Hi-Pot: 3750Vac,0.5mA,1S Pin1-8, tie 7-6

Operating temperature: -40°C to +105°C

Sotrage temperature: -20°C to +65°C

NAME:	Isolation transformers for broadband PLC system		
CUSTOMER P/N:		DATE:	2023-05-10
SHINHOM P/N:	T2033	REV: A0	PAGE
DRAWN BY	CHECKED BY	APPROVE BY	

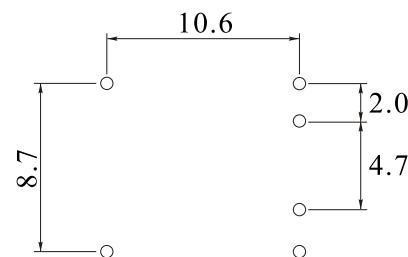
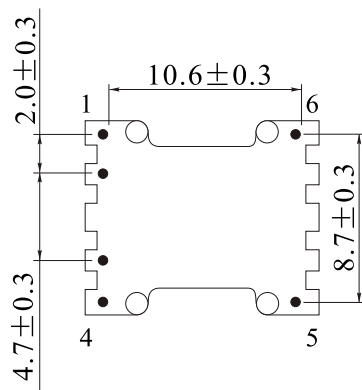
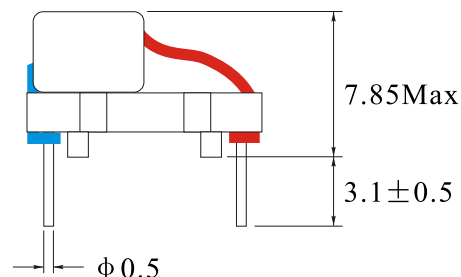
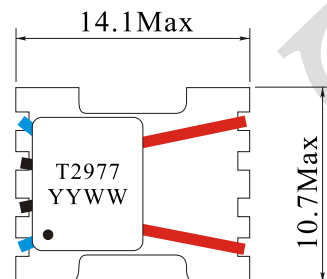


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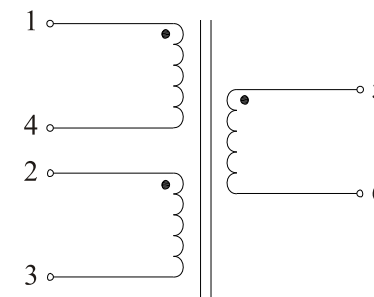
Rev.	Description	Date
A0	New release	2023.05.10

1. PHYSICAL CHARACTERISTICS (mm)



Land pattern

2. ELECTRICAL SCHEMATIC



3. ELECTRICAL SPECIFICATIONS

Turns ratio: (2-3):(1-4):(5-6)=1:5:4±5%@50KHz

Inductance(2-3): 1.3uH Typ@2MHz,0.1V

(1-4): 34.7uH Typ@2MHz,0.1V

(5-6): 22.2uH Typ@2MHz,0.1V

LK(2-3): 15nH Typ@2MHz,0.1V, Short other pins

Hi-Pot: 3750Vac,1mA,2S between windings

Operating temperature: -40℃ to +105℃

Sotrage temperature: -20℃ to +65℃

NAME:	Isolation transformers for broadband PLC system		
CUSTOMER P/N:		DATE:	2023-05-10
SHINHOM P/N:	T2977	REV: A0	PAGE
DRAWN BY	CHECKED BY	APPROVE BY	

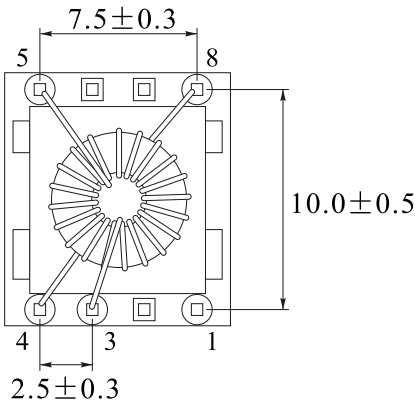
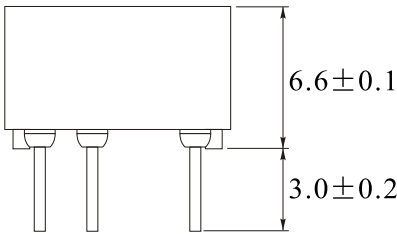
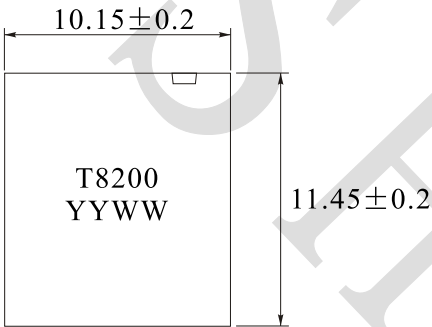


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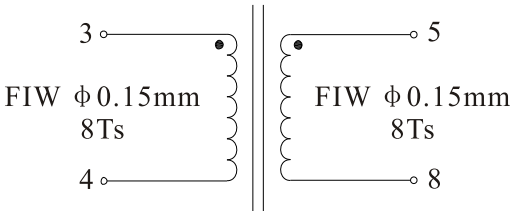
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Rev.	Description	Date
A0	New release	2023.12.29

1.PHYSICAL CHARACTERISTICS(mm)



2.ELECTRONICAL SCHEMATIC



3.ELECTRONICAL SPECIFICATIONS

Turns ratio: (3-4):(5-8)=1:1
Inductance(3-4): 20.0uH Min@2.5MHz,0.1V
LK(3-4): 0.3uH Max@2.5MHz,0.1V, tie 5-8
Interwinding capacitance(4-5): 5pF Max@2.5MHz,0.1V
DCR(3-4): 96mΩ Max
(5-8) 96mΩ Max
Hi-Pot: 5000Vac,1mA,60S
Operating temperature: -40℃ to +75℃
(Including self-temp. rise)
Sotrage temperature: -40℃ to +85℃

NAME:	Isolation transformers for broadband PLC system		
CUSTOMER P/N:		DATE:	2023-12-29
SHINHOM P/N:	T8200	REV: A0	PAGE
DRAWN BY	CHECKED BY	APPROVE BY	

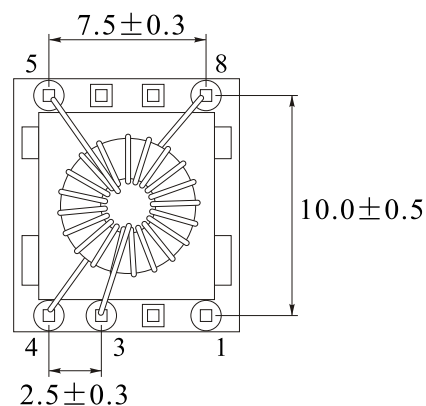
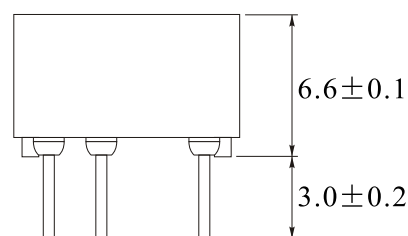
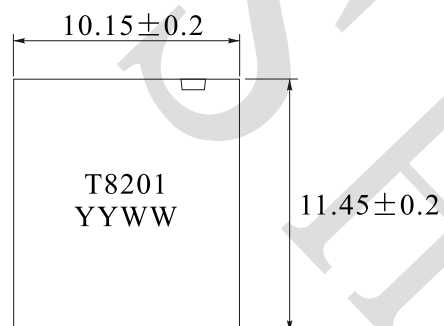


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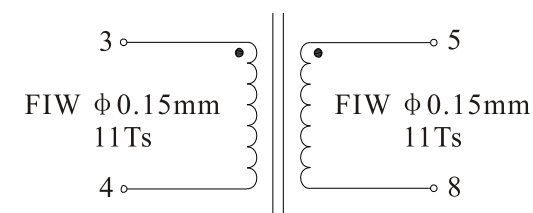
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Rev.	Description	Date
A0	New release	2023.12.29

1. PHYSICAL CHARACTERISTICS (mm)



2. ELECTRICAL SCHEMATIC



3. ELECTRICAL SPECIFICATIONS

Turns ratio: (3-4):(5-8)=1:1

Inductance(3-4): 200uH Min@100KHz,0.1V

LK(3-4): 1.0uH Max@100KHz,0.1V, tie 5-8

DCR(3-4): 160mΩ Max

(5-8) 160mΩ Max

Hi-Pot: 5000Vac,1mA,60S

Operating temperature: -40℃ to +75℃
(Including self-temp. rise)

Sotrage temperature: -40℃ to +85℃

NAME:	Isolation transformers for broadband PLC system		
CUSTOMER P/N:		DATE:	2023-12-29
SHINHOM P/N:	T8201	REV: A0	PAGE
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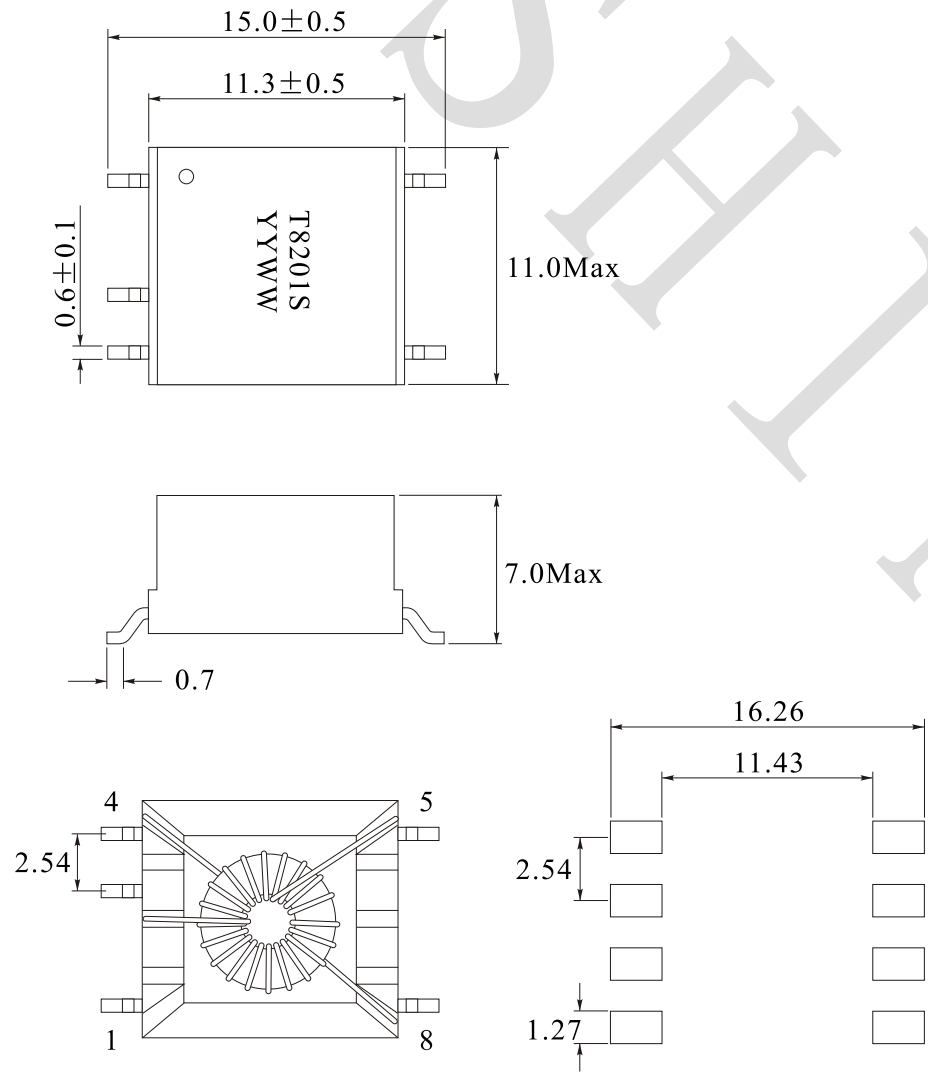


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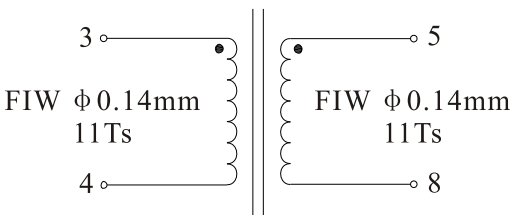
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Rev.	Description	Date
A0	New release	2023.12.29

1. PHYSICAL CHARACTERISTICS (mm)



2. ELECTRICAL SCHEMATIC



3. ELECTRICAL SPECIFICATIONS

Turns ratio: (3-4):(5-8)=1:1
Inductance(3-4): 200uH Min@100KHz,0.1V
LK(3-4): 1.0uH Max@100KHz,0.1V, tie 5-8
DCR(3-4): 134mΩ Max
(5-8) 134mΩ Max
Hi-Pot: 5000Vac,1mA,60S
Operating temperature: -40℃ to +75℃
(Including self-temp. rise)
Sotrage temperature: -40℃ to +85℃

NAME:	Isolation transformers for broadband PLC system		
CUSTOMER P/N:		DATE:	2023-12-29
SHINHOM P/N:	T8201S	REV: A0	PAGE
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BROADBAND PLC TRANSFORMER

T953DG

FEATURES:

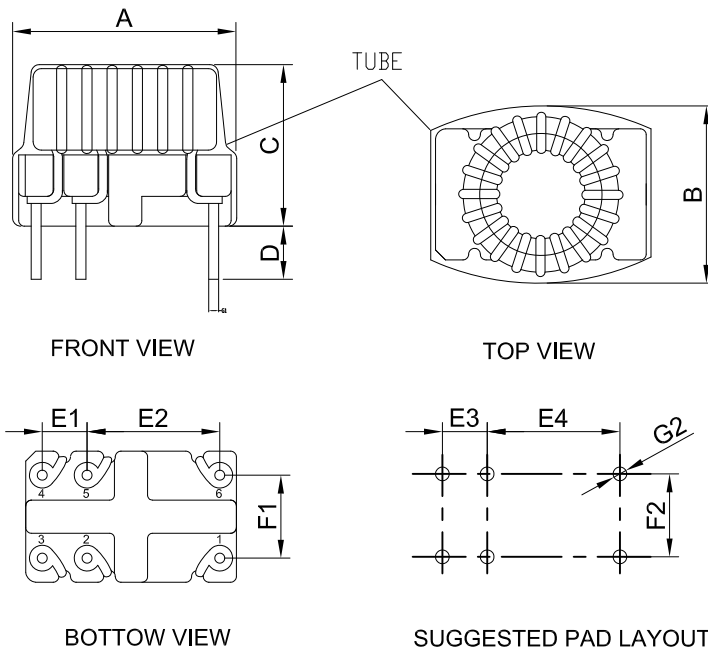
- DESIGN FOR PLC(POWER LINE COMMUNICATION) APPLICATION.
- ROHS COMPLIANT.
- REINFORCED INSULATION
- OPERATING TEMPERATURE RANGE: -40°C TO 85°C.



Electrical Specifications @25°C

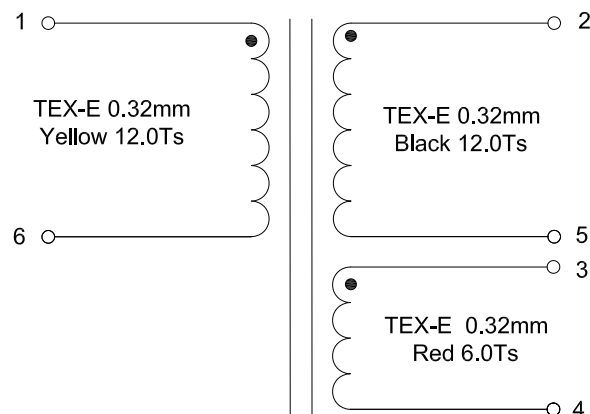
Part Number	OCL @10KHz,0.25V	OCL @10KHz,0.25V	DCR @25°C	DCR @25°C	Turns Ration @1kHz,0.25V	Hi-Pot
	1-6=2-5	3-4	1-6=2-5	3-4	1-6:2-5:3-4	1-6 TO 2-5,3-4
T953DG	93-209uH	23-52uH	120mΩ Max	80mΩ Max	1:1:0.5±3%	3000Vac,3mA,60S,60Hz

MECHANICAL



DIM	MILLIMETERS (Units:mm)
A	14.0 Max
B	12.5 Max
C	11.5 Max
D	3.0±0.5
E1	2.7±0.5
E2	8.0±0.3
F1	5.0±0.5
G1	0.6±0.1
E3	2.7 Typ
E4	8.0 Typ
F2	5.0 Typ
G2	1.2 Typ

SCHEMATICS

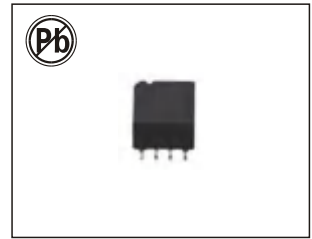


ISOLATION TRANSFORMERS FOR NARROWBAND PLC SYSTEMS

GT70 Series

FEATURES:

- Excellent transmission characteristics
- High mains current capability, low THD
- Matching with all leading IC (modulation methods FSK, DCSK and OFDM)
- Compliant with all PLC standards (HomePlug, CENELEC ...)
- Compact designs in THT and SMT housings
- Insulation according to IEC 60950, UL 1950 and IEC 61558



DESCRIPTION:

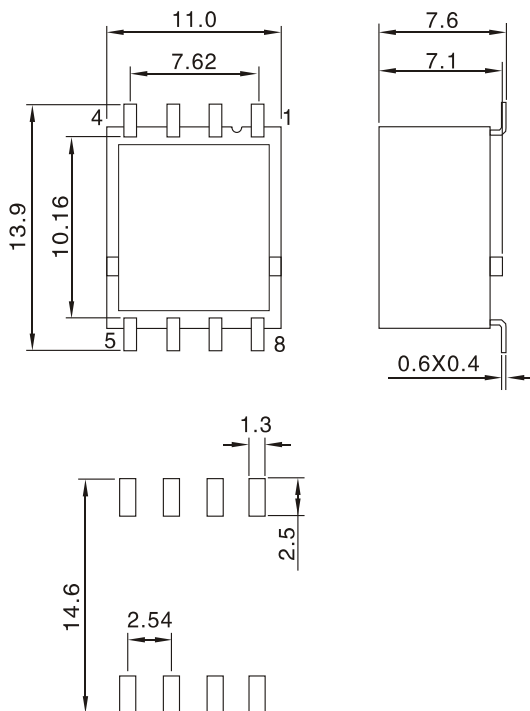
For narrowband PLC systems where the operating frequency may be up to 500 kHz isolation transformers based on amorphous or nanocrystalline offer excellent transmission characteristics, high robustness against EMC interferences and safe galvanic insulation.

STANDARD SPECIFICATION:

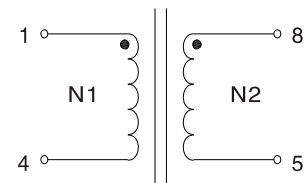
Part Number	Turns ratio	Sec. current (mA)Max	Sec. Inductance (mH)Min	Sec. Leakage inductance (Short Pri.) (uH)	Capacitance Pri to Sec (pF)Typ.	Sec. DCR (Ω)Typ.	Insulation voltage Pri. to Sec. (V)	Hi-Pot (kV)
GT7001	1:1:2	100	0.7	1	40	0.5	400	4.0
GT7002	1:1:2	35	0.88	0.4	30	0.1	400	3.0
GT7003	1:1	30	1.4	0.3	25	0.2	250	5.5
GT7004	1:1	15	2.5	0.9	50	0.3	250	3.0
GT7005	2:1	30	1.4	0.5	50	0.12	400	3.0
GT7006	1.68:1	50	0.43	6	17	0.17	100	1.5
GT7007	1:1:2	100	0.7	1	40	0.5	400	3.0
GT7008	1:4:4	30	1.56	1	25	0.15	400	3.0

PHYSICAL CHARACTERISTICS

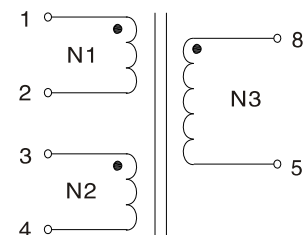
TECHNICAL INFORMATION:



Winding 1



Winding 2



PUSH-PULL ISOLATION TRANSFORMER ST764 SERIES

Features

- Low profile and small size
- Designed to comply with IEC 62368
- RoHS compliant

Applications

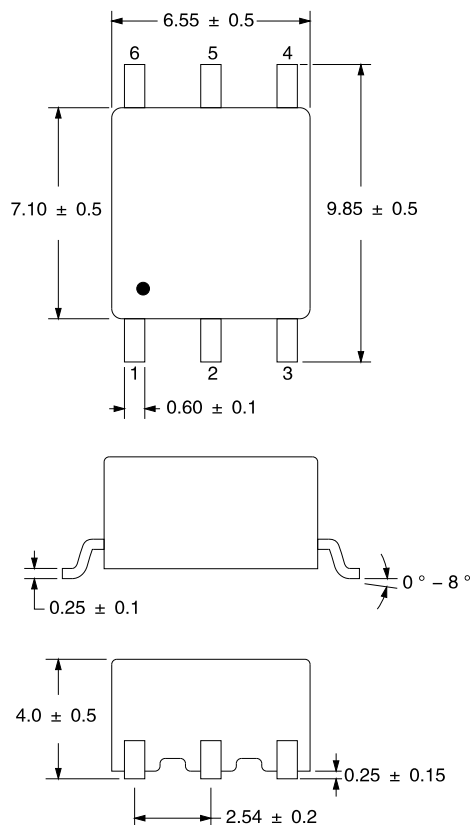
- Isolated RS-485/RS-232 power supplies
- Industrial automation
- AC motor drives
- Smart metering
- Solar inverters



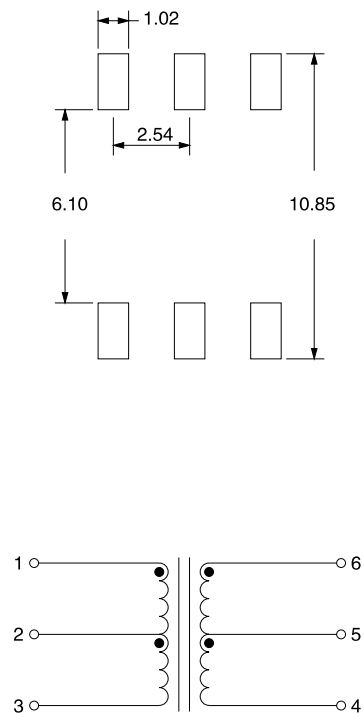
ELECTRICAL CHARACTERISTICS:@25°C

Part Number	Primary Inductance @ 100 kHz / 0.1 V ± 10%(uH)	Turns Ratio	Volt Microseconds Max. V-uS	DCR Max. (m Ω)	DCR Max. (m Ω)	Isolation Voltage (Volts RMS)
	(1-3)	(1-3) : (6-4)	(1-3)	(1-3)	(6-4)	(1-3) : (6-4)
ST764117	475	1:1.7	11	650	900	3100
ST764120	475	1:2	11	650	1000	3100
ST764111	475	1:1.1	11	650	700	3100
ST764113	475	1:1.3	11	650	800	3100

PHYSICAL CHARACTERISTICS:(mm)

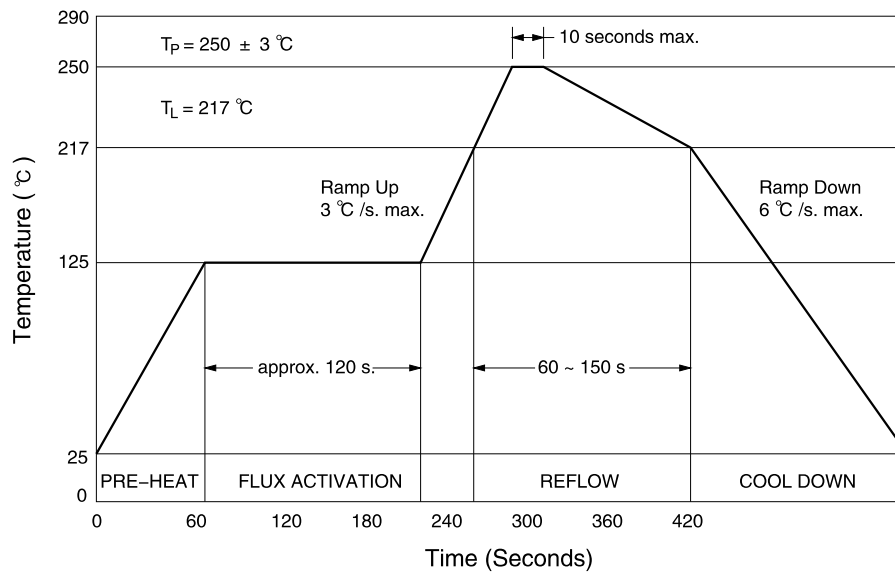


LAYOUT:



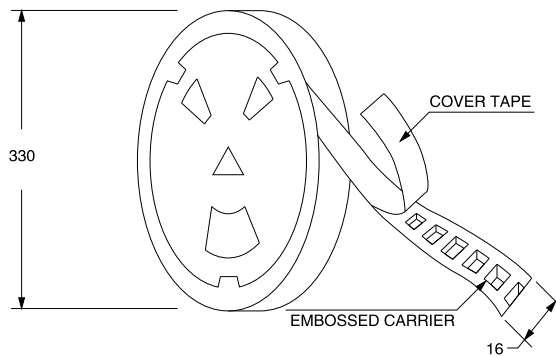
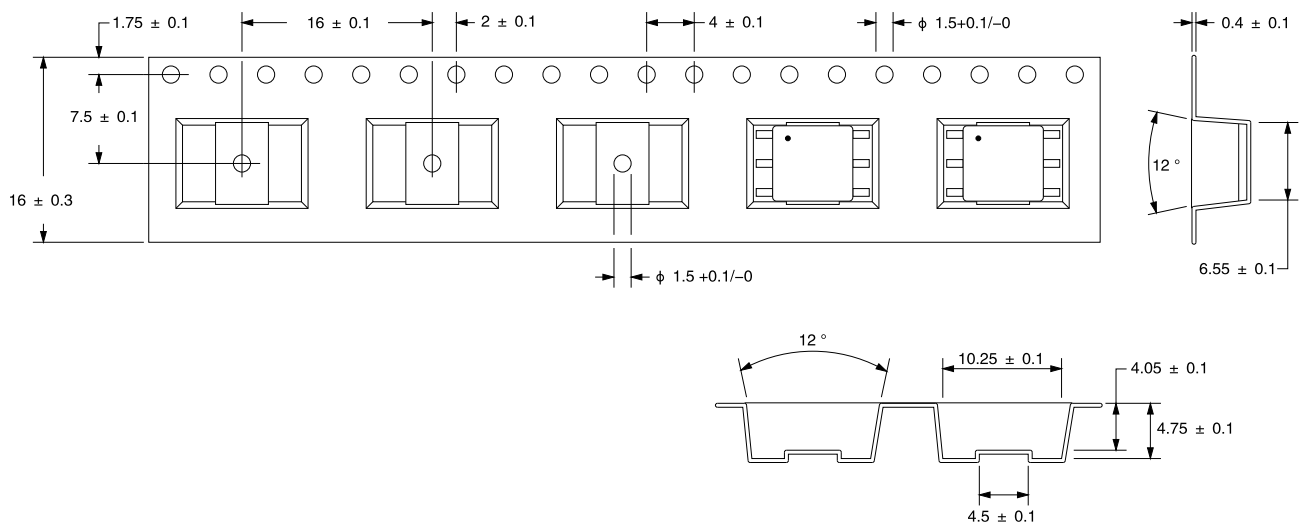
Operating Temperature-40 °C to +125 °C
 Storage Temperature (with packaging)-10 °C to +40 °C
 Storage Temperature (without packaging)-40 °C to +125 °C
 Current Rating350 mArms
 HI-POT Pri / Sec3100 VAC / 1 mA / 2 s
 Level of Insulation.....Functional insulation for a working voltage of 400 Vrms
 per IEC 62368

SOLDERING PROFILE:



Time within $5 \text{ } ^\circ\text{C}$ of actual Peak Temperature (t_p)20 ~ 40 s.
 T_s min.150 $^\circ\text{C}$
 T_s max.200 $^\circ\text{C}$
 T_s min. to T_s max.60 ~ 180 s.
 25 $^\circ\text{C}$ to Peak Temperature8 minutes max.

PACKAGING SPECIFICATIONS:(mm)



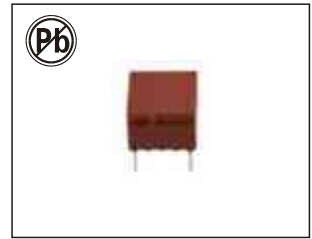
800 pcs. per 13-inch reel

ISOLATION TRANSFORMERS FOR NARROWBAND PLC SYSTEMS

T4021 Series

FEATURES:

- Excellent transmission characteristics
- High mains current capability, low THD
- Matching with all leading IC (modulation methods FSK, DCSK and OFDM)
- Compliant with all PLC standards (HomePlug, CENELEC ...)
- Compact designs in THT and SMT housings
- Insulation according to IEC 60950, UL 1950 and IEC 61558



DESCRIPTION:

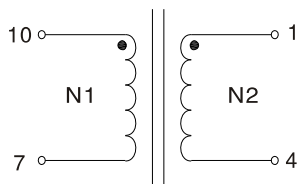
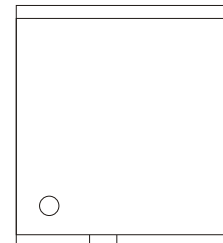
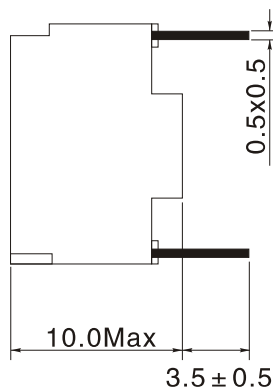
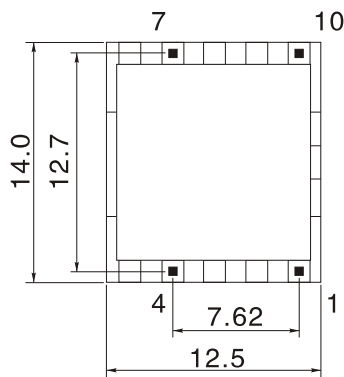
For narrowband PLC systems where the operating frequency may be up to 500 kHz isolation transformers based on amorphous or nanocrystalline offer excellent transmission characteristics, high robustness against EMC interferences and safe galvanic insulation.

STANDARD SPECIFICATION:

Part Number	Turns ratio	Sec. current (mA)Max	Sec. Inductance (mH)Min	Sec. Leakage inductance (Short Pri.) (uH)	Capacitance Pri to Sec (pF)Typ.	Sec. DCR (Ω)Typ.	Insulation voltage Pri. to Sec. (V)	Hi-Pot (kV)
T4021-142	1.68:1	50	0.43	6	17	0.17	100	1.5
T4021-144	1.37:1	120	0.43	1	35	0.22	450	5.1
T4021-145	1.7:1	130	0.34	1	30	0.2	450	5.1
T4021-146	1:1	100	0.68	1	35	0.26	450	5.1

PHYSICAL CHARACTERISTICS

TECHNICAL INFORMATION:



Notes:

Electrical specification at 25°C

Testing: LCR Bridge measured @ 1KHz 0.1V HP 4284A

(Equivalent acceptable)

RDC: QuadTech 1880 Milliohm meter

Operating temperature rang: -40°C to +125°C

Storage temperature rang: -40°C to +125°C

Note: All specifications subject to change without notice.

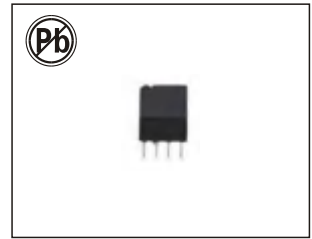
SHINHOM ELECTRONICS ENTERPRISE CO., LTD. No.8, YanTa Northern Road Zip: 710054 Tel: 0086-29-87851838 Fax: 0086-29-87851840

ISOLATION TRANSFORMERS FOR NARROWBAND PLC SYSTEMS

T4031 Series

FEATURES:

- Excellent transmission characteristics
- High mains current capability, low THD
- Matching with all leading IC (modulation methods FSK, DCSK and OFDM)
- Compliant with all PLC standards (HomePlug, CENELEC ...)
- Compact designs in THT and SMT housings
- Insulation according to IEC 60950, UL 1950 and IEC 61558



DESCRIPTION:

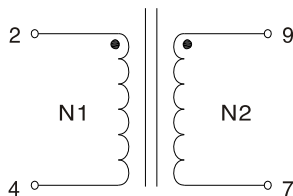
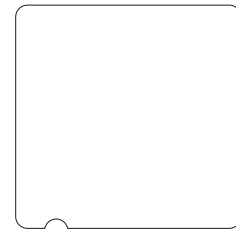
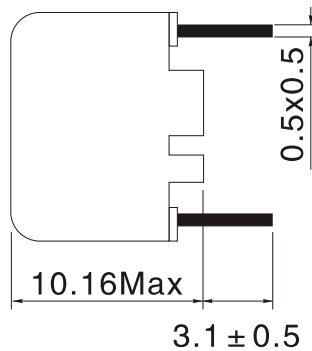
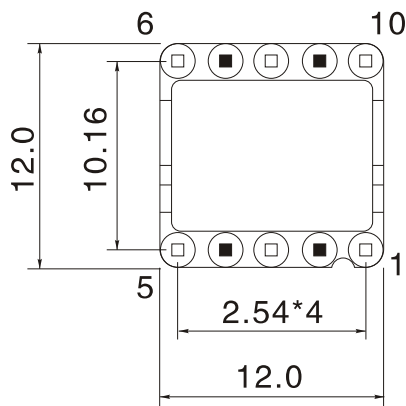
For narrowband PLC systems where the operating frequency may be up to 500 kHz isolation transformers based on amorphous or nanocrystalline offer excellent transmission characteristics, high robustness against EMC interferences and safe galvanic insulation.

STANDARD SPECIFICATION:

Part Number	Turns ratio	Sec. current (mA)Max	Sec. Inductance (mH)Min	Sec. Leakage inductance (Short Pri.) (uH)	Capacitance Pri to Sec (pF)Typ.	Sec. DCR (Ω)Typ.	Insulation voltage Pri. to Sec. (V)	Hi-Pot (kV)
T4031-009	2:1	5	1.0	0.17	17	0.08	300	4.2

PHYSICAL CHARACTERISTICS

TECHNICAL INFORMATION:



Notes:

Electrical specification at 25°C

Testing: LCR Bridge measured @ 1KHz 0.1V HP 4284A

(Equivalent acceptable)

RDC: QuadTech 1880 Milliohm meter

Operating temperature rang: -40°C to +125°C

Storage temperature rang: -40°C to +125°C

Note: All specifications subject to change without notice.

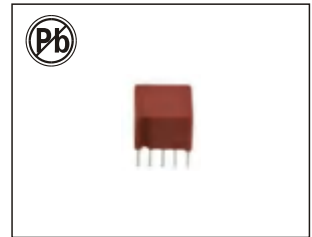
SHINHOM ELECTRONICS ENTERPRISE CO.,LTD. No.8,YanTa Northern Road Zip:710054 Tel:0086-29-87851838 Fax:0086-29-87851840

ISOLATION TRANSFORMERS FOR NARROWBAND PLC SYSTEMS

T4081 Series

FEATURES:

- Excellent transmission characteristics
- High mains current capability, low THD
- Matching with all leading IC (modulation methods FSK, DCSK and OFDM)
- Compliant with all PLC standards (HomePlug, CENELEC ...)
- Compact designs in THT and SMT housings
- Insulation according to IEC 60950, UL 1950 and IEC 61558



DESCRIPTION:

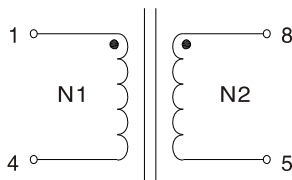
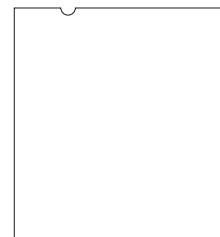
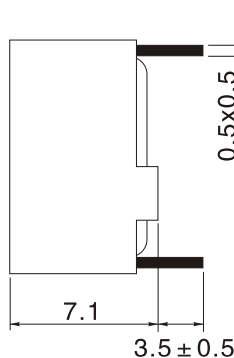
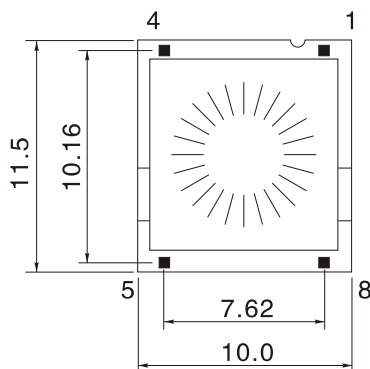
For narrowband PLC systems where the operating frequency may be up to 500 kHz isolation transformers based on amorphous or nanocrystalline offer excellent transmission characteristics, high robustness against EMC interferences and safe galvanic insulation.

STANDARD SPECIFICATION:

Part Number	Turns ratio	Sec. current (mA)Max	Sec. Inductance (mH)Min	Sec. Leakage inductance (Short Pri.) (uH)	Capacitance Pri to Sec (pF)Typ.	Sec. DCR (Ω)Typ.	Insulation voltage Pri. to Sec. (V)	Hi-Pot (kV)
T4081-004	1:1	30	1.4	0.8	25	0.2	400	4.0
T4081-007	2:1	35	0.9	0.3	25	0.11	250	5.5
T4081-008	1.36:1	32	1.2	0.4	25	0.13	250	5.5

PHYSICAL CHARACTERISTICS

TECHNICAL INFORMATION:



Notes:

Electrical specification at 25°C

Testing: LCR Bridge measured @ 1KHz 0.1V HP 4284A

(Equivalent acceptable)

RDC: QuadTech 1880 Milliohm meter

Operating temperature rang: -40°C to +125°C

Storage temperature rang: -40°C to +125°C

Note: All specifications subject to change without notice.

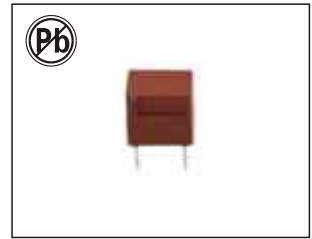
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ISOLATION TRANSFORMERS FOR NARROWBAND PLC SYSTEMS

T4085 Series

FEATURES:

- Excellent transmission characteristics
- High mains current capability, low THD
- Matching with all leading IC (modulation methods FSK, DCSK and OFDM)
- Compliant with all PLC standards (HomePlug, CENELEC ...)
- Compact designs in THT and SMT housings
- Insulation according to IEC 60950, UL 1950 and IEC 61558



DESCRIPTION:

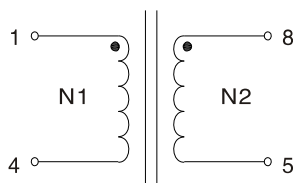
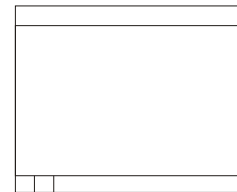
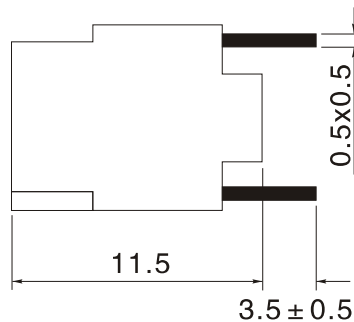
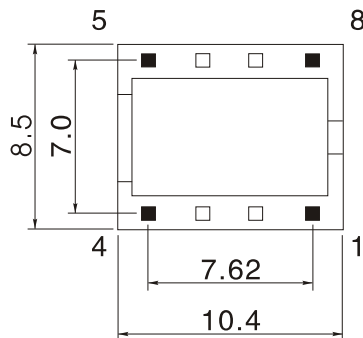
For narrowband PLC systems where the operating frequency may be up to 500 kHz isolation transformers based on amorphous or nanocrystalline offer excellent transmission characteristics, high robustness against EMC interferences and safe galvanic insulation.

STANDARD SPECIFICATION:

Part Number	Turns ratio	Sec. current (mA)Max	Sec. Inductance (mH)Min	Sec. Leakage inductance (Short Pri.) (uH)	Capacitance Pri to Sec (pF)Typ.	Sec. DCR (Ω)Typ.	Insulation voltage Pri. to Sec. (V)	Hi-Pot (kV)
T4085-004	1:1	30	1.4	0.8	25	0.2	300	4.0

PHYSICAL CHARACTERISTICS

TECHNICAL INFORMATION:



Notes:

Electrical specification at 25°C

Testing: LCR Bridge measured @ 1KHz 0.1V HP 4284A
(Equivalent acceptable)

RDC: QuadTech 1880 Milliohm meter

Operating temperature rang: -40°C to +125°C

Storage temperature rang: -40°C to +125°C

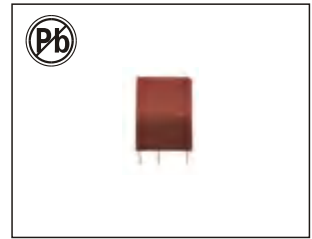
Note: All specifications subject to change without notice.

ISOLATION TRANSFORMERS FOR NARROWBAND PLC SYSTEMS

T4096 Series

FEATURES:

- Excellent transmission characteristics
- High mains current capability, low THD
- Matching with all leading IC (modulation methods FSK, DCSK and OFDM)
- Compliant with all PLC standards (HomePlug, CENELEC ...)
- Compact designs in THT and SMT housings
- Insulation according to IEC 60950, UL 1950 and IEC 61558



DESCRIPTION:

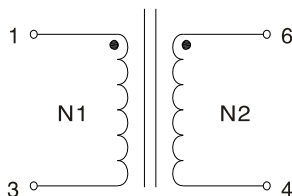
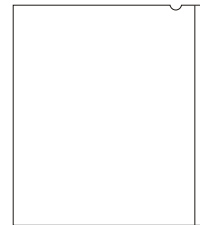
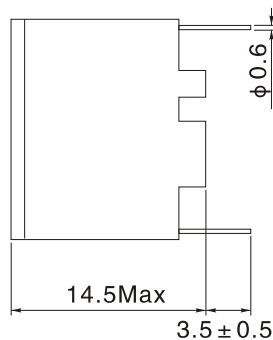
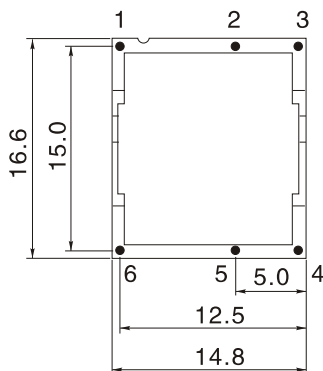
For narrowband PLC systems where the operating frequency may be up to 500 kHz isolation transformers based on amorphous or nanocrystalline offer excellent transmission characteristics, high robustness against EMC interferences and safe galvanic insulation.

STANDARD SPECIFICATION:

Part Number	Turns ratio	Sec. current (mA)Max	Sec. Inductance (mH)Min	Sec. Leakage inductance (Short Pri.) (uH)	Capacitance Pri to Sec (pF)Typ.	Sec. DCR (Ω)Typ.	Insulation voltage Pri. to Sec. (V)	Hi-Pot (kV)
T4096-046	1:1	30	1.3	1	12	0.15	500	6.0
T4096-047	1:1	/	1.3	10	5	0.2	500	6.0

PHYSICAL CHARACTERISTICS

TECHNICAL INFORMATION:



Notes:

Electrical specification at 25°C

Testing: LCR Bridge measured @ 1KHz 0.1V HP 4284A
(Equivalent acceptable)

RDC: QuadTech 1880 Milliohm meter

Operating temperature rang: -40°C to +125°C

Storage temperature rang: -40°C to +125°C

Note: All specifications subject to change without notice.

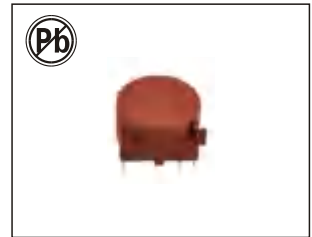
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ISOLATION TRANSFORMERS FOR NARROWBAND PLC SYSTEMS

T4185 Series

FEATURES:

- Excellent transmission characteristics
- High mains current capability, low THD
- Matching with all leading IC (modulation methods FSK, DCSK and OFDM)
- Compliant with all PLC standards (HomePlug, CENELEC ...)
- Compact designs in THT and SMT housings
- Insulation according to IEC 60950, UL 1950 and IEC 61558



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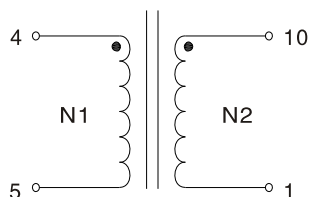
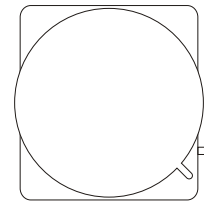
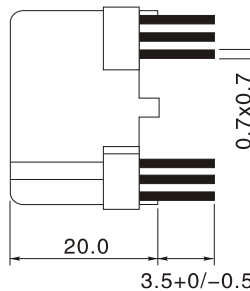
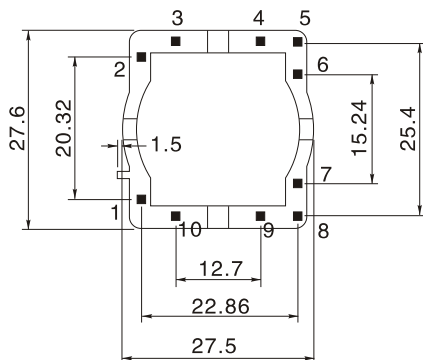
For narrowband PLC systems where the operating frequency may be up to 500 kHz isolation transformers based on amorphous or nanocrystalline offer excellent transmission characteristics, high robustness against EMC interferences and safe galvanic insulation.

STANDARD SPECIFICATION:

Part Number	Turns ratio	Sec. current (mA)Max	Sec. Inductance (mH)Min	Sec. Leakage inductance (Short Pri.) (uH)	Capacitance Pri to Sec (pF)Typ.	Sec. DCR (Ω)Typ.	Insulation voltage Pri. to Sec. (V)	Hi-Pot (kV)
T4185-047	1:1	50	1.4	0.8	15	0.2	400	10.0

PHYSICAL CHARACTERISTICS

TECHNICAL INFORMATION:



Notes:

Electrical specification at 25°C

Testing:LCR Bridge measured @ 1KHz 0.1V HP 4284A
(Equivalent acceptable)

RDC: QuadTech 1880 Milliohmmer

Operating temperature rang: -40°C to +125°C

Storage temperature rang: -40°C to +125°C

Note:All specifications subject to change without notice.

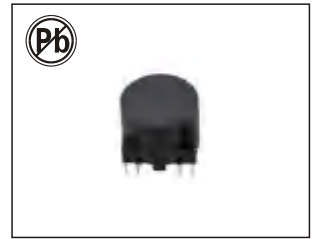
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ISOLATION TRANSFORMERS FOR NARROWBAND PLC SYSTEMS

T4614 Series

FEATURES:

- Excellent transmission characteristics
- High mains current capability, low THD
- Matching with all leading IC (modulation methods FSK, DCSK and OFDM)
- Compliant with all PLC standards (HomePlug, CENELEC ...)
- Compact designs in THT and SMT housings
- Insulation according to IEC 60950, UL 1950 and IEC 61558



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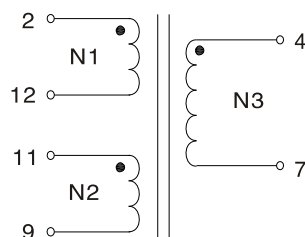
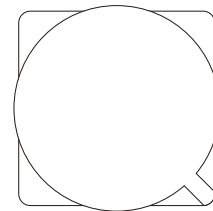
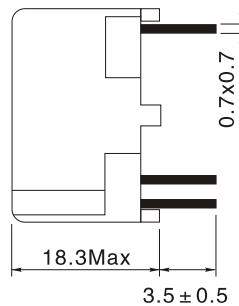
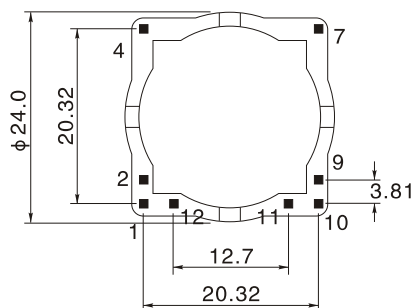
For narrowband PLC systems where the operating frequency may be up to 500 kHz isolation transformers based on amorphous or nanocrystalline offer excellent transmission characteristics, high robustness against EMC interferences and safe galvanic insulation.

STANDARD SPECIFICATION:

Part Number	Turns ratio	Sec. current (mA)Max	Sec. Inductance (mH)Min	Sec. Leakage inductance (Short Pri.) (uH)	Capacitance Pri to Sec (pF)Typ.	Sec. DCR (Ω)Typ.	Insulation voltage Pri. to Sec. (V)	Hi-Pot (kV)
T4614-010	1:1.2	250	0.44	0.9	60	0.02	450	5.1

PHYSICAL CHARACTERISTICS

TECHNICAL INFORMATION:



Notes:

Electrical specification at 25°C

Testing: LCR Bridge measured @ 1KHz 0.1V HP 4284A

(Equivalent acceptable)

RDC: QuadTech 1880 Milliohm meter

Operating temperature rang: -40°C to +125°C

Storage temperature rang: -40°C to +125°C

Note: All specifications subject to change without notice.

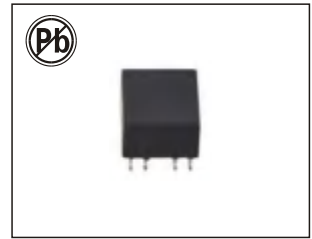
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ISOLATION TRANSFORMERS FOR NARROWBAND PLC SYSTEMS

T5032 Series

FEATURES:

- Excellent transmission characteristics
- High mains current capability, low THD
- Matching with all leading IC (modulation methods FSK, DCSK and OFDM)
- Compliant with all PLC standards (HomePlug, CENELEC ...)
- Compact designs in THT and SMT housings
- Insulation according to IEC 60950, UL 1950 and IEC 61558



DESCRIPTION:

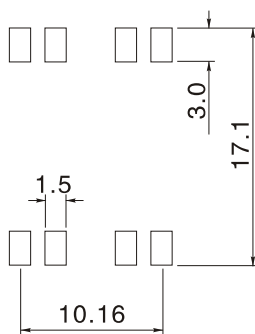
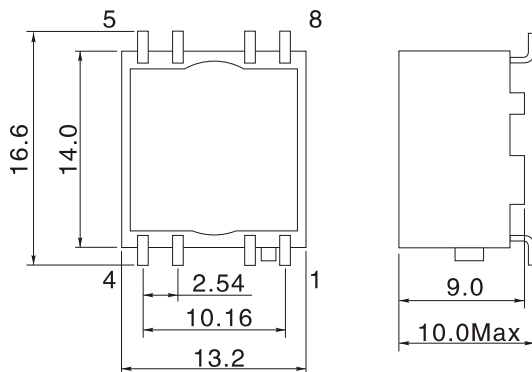
For narrowband PLC systems where the operating frequency may be up to 500 kHz isolation transformers based on amorphous or nanocrystalline offer excellent transmission characteristics, high robustness against EMC interferences and safe galvanic insulation.

STANDARD SPECIFICATION:

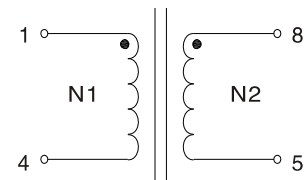
Part Number	Turns ratio	Sec. current (mA)Max	Sec. Inductance (mH)Min	Sec. Leakage inductance (Short Pri.) (uH)	Capacitance Pri to Sec (pF)Typ.	Sec. DCR (Ω)Typ.	Insulation voltage Pri. to Sec. (V)	Hi-Pot (kV)
T5032-104	1:1	90	0.5	6.6	15	0.09	100	1.0
T5032-111	2:1	130	0.3	5.8	7	0.17	300	3.0
T5032-102	1:1:2	100	0.7	1	30	0.23	450	5.1
T5032-114	1:1.15:1.62	120	0.54	1	30	0.22	450	5.1

PHYSICAL CHARACTERISTICS

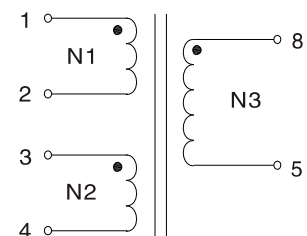
TECHNICAL INFORMATION:



Winding 1



Winding 2



Notes:

Electrical specification at 25°C

Testing: LCR Bridge measured @ 1KHz 0.1V HP 4284A

(Equivalent acceptable)

RDC: QuadTech 1880 Milliohmometer

Operating temperature rang: -40°C to +125°C

Storage temperature rang: -40°C to +125°C

Note: All specifications subject to change without notice.