






T1/CEPT/ISDN-PRI TRANSFORMERS

Dual Surface Mount, 1500 Vrms, Extended and Standard Temperature Range



-  Dual SMT package contains both transmit and receive transformers
-  Models matched to leading transceiver ICs
-  Isolation voltage: 1500 Vrms
-  UL 1459 and UL 1950 recognized
-  EN 60950 safety agency approval per BABT

Electrical Specifications @ 25°C

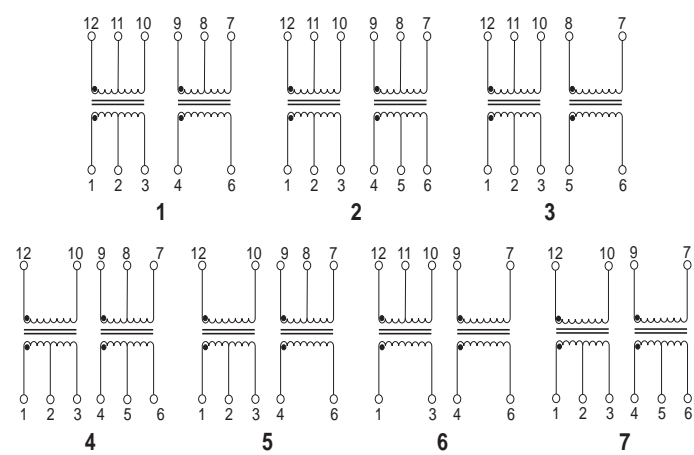
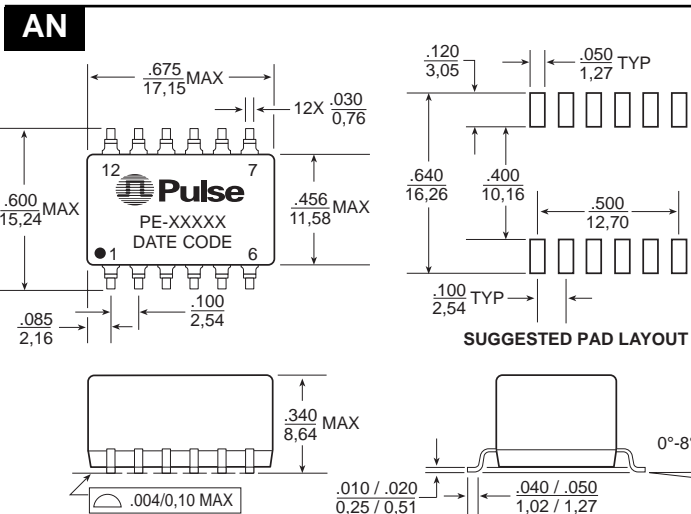
Part Number	Turns Ratio ^B (Pri:Sec ± 2%)	OCL @ 25°C (mH MIN)	L _L (μH MAX)	C _{w/w} (pF MAX)	DCR Pri (Ω MAX)	DCR Sec (Ω MAX)	Package/ Schematic	Primary Pins
EXTENDED TEMPERATURE RANGE MODELS¹ – OPERATING TEMPERATURE -40°C TO +85°C								
PE-68841	1CT:2CT & 1CT:2CT	1.20 & 1.20	0.80 & 0.80	50 & 50	1.00 & 1.00	1.70 & 1.70	AN/2	12-10, 4-6
PE-68822	1CT:2CT & 1:1.36CT	1.60 & 1.60	1.00 & 0.80	60 & 55	1.70 & 1.70	2.00 & 1.70	AN/1	12-10, 4-6
PE-68825	1:1.15CT & 1CT:2CT	1.60 & 1.60	0.80 & 0.80	60 & 50	1.00 & 1.00	1.20 & 2.00	AN/4	12-10, 4-6
PE-68826 ^E	1:1/1.26 & 1:2CT	1.20 & 1.20	0.80 & 0.80	50 & 60	1.00 & 1.00	1.10 & 1.70	AN/5	12-10, 4-6
PE-68827 ^D	1:2CT & 2:1	1.60 & 1.60	1.30 & 1.30	55 & 40	1.10 & 1.10	1.10 & 0.70	AN/6	1-3, 4-6
PE-68828	1CT:1CT & 1CT:1CT	1.20 & 1.20	0.80 & 0.80	50 & 50	1.00 & 1.00	1.00 & 1.00	AN/2	1-3, 4-6
PE-68874	1CT:1.15CT & 1CT:1.15CT	1.20 & 1.20	0.80 & 0.80	50 & 50	1.20 & 1.20	1.40 & 1.40	AN/2	1-3, 4-6
PE-68877	1CT:1CT & 1CT:2CT	1.20 & 1.20	0.80 & 0.80	50 & 50	1.00 & 1.00	1.00 & 1.80	AN/2	1-3, 4-6
PE-68882	1CT:1.15CT & 1CT:1CT	1.60 & 1.60	0.80 & 0.80	60 & 60	1.20 & 1.20	1.40 & 1.20	AN/2	12-10, 4-6
PE-68884	1CT:1.36CT & 1CT:1.36CT	1.20 & 1.20	0.80 & 0.80	50 & 50	1.20 & 1.20	1.40 & 1.40	AN/2	1-3, 4-6
PE-68887	1CT:1.41CT & 1CT:1.41CT	1.20 & 1.20	0.80 & 0.80	50 & 50	1.40 & 1.40	1.20 & 1.20	AN/2	12-10, 9-7
PE-68881	1CT:2.3CT & 1CT:2CT	1.20 & 1.20	0.80 & 0.80	60 & 50	1.20 & 1.20	2.10 & 2.10	AN/2	10-12, 4-6
STANDARD TEMPERATURE RANGE MODELS – OPERATING TEMPERATURE 0°C TO +70°C								
T1131 ¹	1CT:1 & 1:1.36CT	0.70 & 0.70	0.70 & 0.70	20 & 20	0.25 & 0.50	0.80 & 0.40	AN/7	1-3, 9-7
PE-68861	1CT:2CT & 1CT:2CT	1.20 & 1.20	0.60 & 0.60	35 & 35	0.70 & 0.70	1.20 & 1.20	AN/2	12-10, 4-6
PE-68862	1CT:2CT & 1:1.36CT	1.20 & 1.20	0.60 & 0.80	35 & 37	0.70 & 0.70	1.20 & 0.90	AN/1	12-10, 4-6
PE-68863	1:2CT & 1:1.14CT	1.20 & 1.20	0.55 & 0.80	40 & 35	0.70 & 0.70	1.20 & 0.90	AN/5	12-10, 4-6
PE-68864 ^A	1CT:2CT & 1:1	1.20 & 1.20	0.30-0.55 & 0.80	30 & 30	0.70 & 0.70	1.20 & 0.70	AN/3	1-3, 5-6
PE-68865	1:1.15CT & 1CT:2CT	1.50 & 1.20	0.80 & 0.60	35 & 35	0.70 & 0.70	0.90 & 1.20	AN/4	12-10, 4-6
PE-68866 ^E	1:1/1.26 & 1:2CT	1.50 & 1.20	0.40 & 0.50	40 & 40	0.70 & 0.70	0.90 & 1.20	AN/5	12-10, 4-6
PE-68869	1CT:2CT & 1:1.08CT	1.20 & 1.20	0.60 & 0.60	40 & 30	0.70 & 0.70	1.10 & 0.90	AN/1	12-10, 4-6
PE-68836 ^E	1:1/1.26 & 1:1/1.26	1.50 & 1.50	0.40 & 0.40	45 & 45	0.80 & 0.80	1.00 & 1.00	AN/7	12-10, 9-7

NOTE: For Quad Surface Mount packages, refer to data sheet T615. For Reinforced Insulation Models, refer to data sheet T617.

(See Pages 6 and 7 for Table Notes)

Mechanical

Schematics



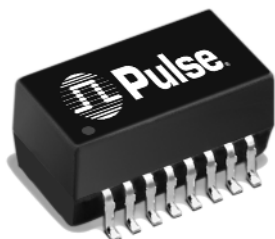
Dimensions: $\frac{\text{Inches}}{\text{mm}}$
 Unless otherwise specified, all tolerances are $\pm \frac{.010}{0,25}$

Weight 4.0 grams
 Tape & Reel250/reel
 Tube30/tube

U.S.A: TEL 619 674 8100 • EUROPE: TEL 44 1483 401700 • ASIA: TEL 65 287 8998 • WEB: <http://www.pulseeng.com>

T1/CEPT/ISDN-PRI TRANSFORMERS

Dual Surface Mount, 1500 Vrms, Small Package



- Small surface mount package
- Dual SMT package contains both transmit and receive transformers
- Models matched to leading transceiver ICs
- Isolation voltage: 1500 Vrms
- UL 1459 and UL 1950 recognized
- EN 60950 safety agency approval per BABT

Electrical Specifications @ 25°C — Operating Temperature 0°C to 70°C

Part Number	Turns Ratio ^B (Pri:Sec ±5%)	OCL (mH MIN)	C _{w/w} (pF MAX)	L _L (μH MAX)	DCR Pri (Ω MAX)	DCR Sec (Ω MAX)	Package/ Schematic	Primary Pins
T1136 ^I	1CT:1CT & 1CT:1.36CT	1.20 & 1.20	30 & 30	.60 & .60	0.70 & 0.70	1.00 & 1.00	BH/1	1-3, 6-8
T1022 ^I	1CT:1CT & 1CT:1.5CT	1.20 & 1.20	30 & 30	.60 & .60	0.70 & 0.70	0.70 & 1.00	BH/1	16-14, 6-8
PE-65861	1CT:2CT & 1CT:2CT	1.20 & 1.20	30 & 30	.60 & .60	0.70 & 0.70	1.40 & 1.40	BH/1	16-14, 6-8
PE-65862	1CT:2CT & 1:1.36CT	1.20 & 1.20	30 & 30	.60 & .60	0.70 & 0.70	1.00 & 0.80	BH/2	16-14, 6-8
PE-65865	1:1.15CT & 1CT:2CT	1.20 & 1.20	30 & 30	.60 & .60	0.70 & 0.70	0.70 & 1.00	BH/3	16-14, 6-8
PE-65866 ^E	1:1/1.26 & 1CT:2CT	1.20 & 1.20	30 & 30	.60 & .60	0.70 & 0.70	0.80 & 1.00	BH/3	16-14, 6-8
PE-65870	1CT:1.15CT & 1CT:1.15CT	1.20 & 1.20	30 & 30	.60 & .60	0.70 & 0.70	0.75 & 0.75	BH/1	1-3, 6-8
PE-68678	1CT:1CT & 1CT:2CT	1.20 & 1.20	30 & 30	.60 & .60	0.70 & 0.70	0.70 & 1.00	BH/1	16-14, 6-8
PE-68786	1CT:1.41CT & 1CT:1.41CT	1.00 & 1.00	30 & 30	.60 & .60	0.70 & 0.70	0.90 & 0.90	BH/1	16-14, 11-9
T1023 ^I	1CT:1.41CT & 1CT:1.41CT	1.00 & 1.00	30 & 30	.60 & .60	0.70 & 0.70	0.90 & 0.90	BH/1	1-3, 11-9
T1121 ^I	1CT:1.5CT & 1CT:1.5CT	1.50 & 1.50	40 & 40	.80 & .80	0.70 & 0.70	0.90 & 0.90	BH/1	1-3, 6-8
T1122 ^I	1CT:2CT & 1CT:2.3CT	1.20 & 1.20	30 & 30	.80 & .80	0.90 & 0.90	1.30 & 1.30	BH/1	6-8, 14-16
T1021 ^{I,J}	2CT:1/1.26 & 2CT:1/1.26	1.50 & 1.50	40 & 40	.50 & .50	0.70 & 0.70	1.00 & 1.00	BH/1	1-3, 11-9
T1075 ^{I,J}	2CS:1.57/2 & 2CS:1.57/2	1.50 & 1.50	40 & 40	.50 & .50	0.70 & 0.70	1.00 & 1.00	BH/4	1-2, 5-6

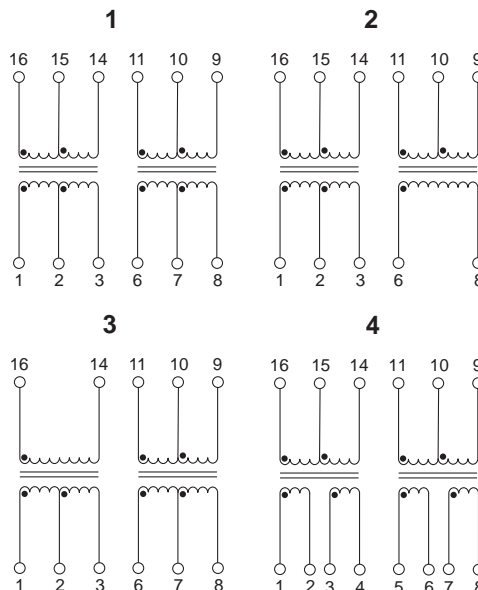
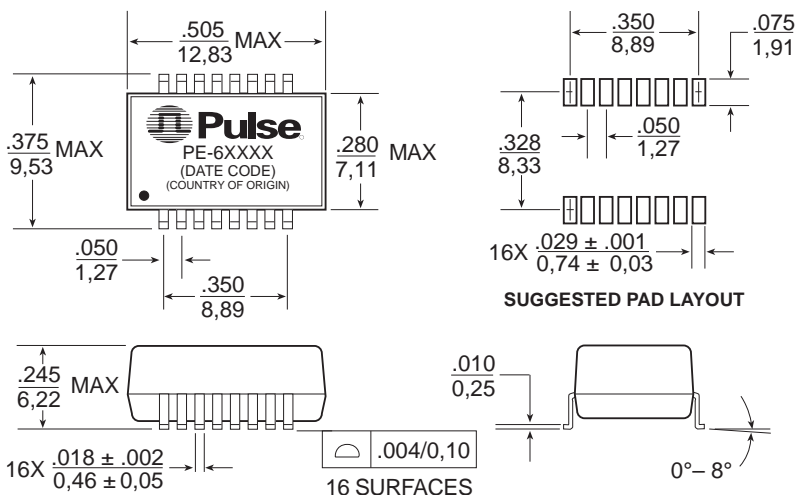
NOTE: Models are available with unused leads removed. *T1023 is an alternate version of PE-68786.

(See Pages 6 and 7 for Table Notes)

Mechanical

Schematics

BH

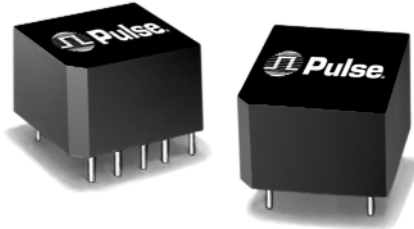






Dimensions: $\frac{\text{Inches}}{\text{mm}}$
 Unless otherwise specified, all tolerances are $\pm \frac{.010}{0,25}$

Weight 1.0 grams
 Tape & Reel 600/reel
 Tube 40/tube

T1/CEPT/ISDN-PRI TRANSFORMERS

Single Reinforced Insulation, 3 KVRms



-  Certified for reinforced insulation per EN 41003/EN 60950, UL 1459 and UL 1950
-  For T1/CEPT line interfaces
-  Matched to leading transceiver ICs
-  Designed to meet ITU-T G.703

REINFORCED INSULATION

Electrical Specifications @ 25°C — Operating Temperature 0°C to 70°C (Unless Otherwise Noted)

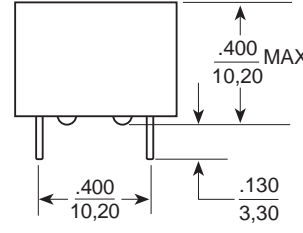
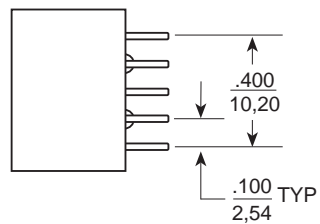
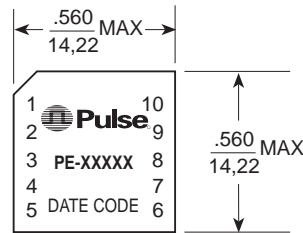
Part Number	Turns Ratio ^B (±5%)	OCL (mH MIN)	C _{W/W} (pF MAX)	L _L (μH MAX)	DCR Pri (Ω MAX)	DCR Sec (Ω MAX)	Safety Agency Recognition ¹⁰	Package/ Schematic	Primary Pins
PE-65830	1.27CS:1	.800	15	0.70	0.50	0.35	C,T,U,B	IS/3	1-5
PE-65831	1CS:1	.800	15	0.70	0.50	0.45	C,T,U,B	IS/3	1-5
PE-65832	1:1.36CT	1.20	35	0.60	0.70	0.90	C,T,U,B	IS/4	10-6
PE-65833 ^A	1CT:2CT	1.20	20	0.30-0.55	0.50	0.90	C,T,U,B	IS/1	1-5
PE-65834	1:1	1.20	20	0.50	0.50	0.50	C,T,U,B	IS/2	1-5
PE-65835	1CT:2CT	1.20 ¹	15	0.80	0.70	1.10	C,T,U,B	IS/1	1-5
PE-65836	1CT:3CT:1	.600 ¹	30	0.80	0.70	1.70	C,T,U,B	IS/5	1-3
PE-65837 ^E	1:1.08/1.36	1.50 ¹	20	0.60	0.70	0.90	C,T,U,B	IS/4	10-6
PE-65838	1:1.14CT	1.50 ¹	30	1.00	0.70	0.90	C,T,U,B	IS/4	10-6
PE-65839 ^E	1:1/1.26	1.50 ¹	35	0.60	0.70	1.10	C,T,U,B	IS/4	10-6
PE-68646 ^E	1:1.58/2	1.50 ¹	20	0.70	0.70	1.20	C,T,U,B	IS/4	10-6
PE-68788	1CT:1.41CT	1.20	20	0.80	0.60	0.80	Pending	IS/1	10-6

NOTE: For surface mount dual version with reinforced insulation products, refer to data sheet T617. (See Pages 6 and 7 for Table Notes)

Mechanical

Schematics

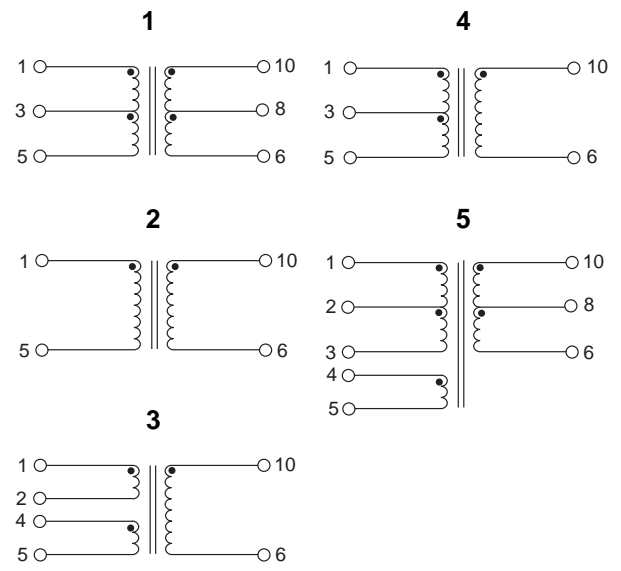
IS



Notes:
Leads are 22 AWG solderable.
Unused pins not provided.

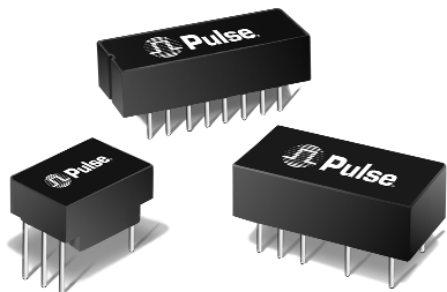
Weight 4 grams
Tube35/tube

Dimensions: Inches
mm
Unless otherwise specified,
all tolerances are ± .010
0,25



T1/CEPT/ISDN-PRI TRANSFORMERS

Single Through Hole, 1500 Vrms



- Extended and standard temperature range
- Dual and single through hole models available
- Models matched to leading transceiver ICs
- Most models UL 1459 and BABT EN 60950 recognized
- Isolation Voltage: 1500 Vrms MIN

Electrical Specifications @ 25°C

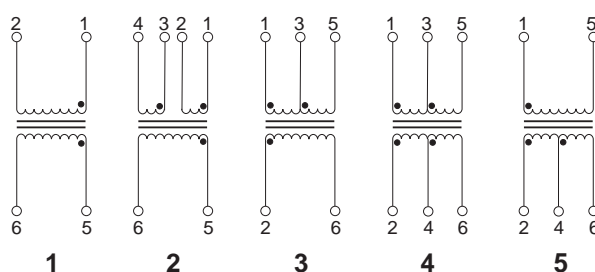
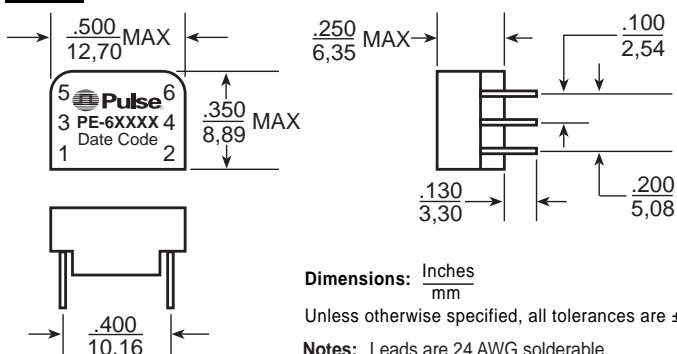
Part Number	Turns Ratio ^B (Pri:Sec ±5%)	OCL @ 25°C (mH MIN)	C _{w/w} (pF MAX)	L _L (μH MAX)	DCR Pri (Ω MAX)	DCR Sec (Ω MAX)	Package/ Schematic	Primary Pins
STANDARD TEMPERATURE RANGE SINGLE TRANSFORMERS – OPERATING TEMPERATURE 0°C TO +70°C								
PE-64931 ^G	1:1:1 (1:2CS)	1.20	25	0.50	0.70	0.70 & 0.70	HC/2	1-2
PE-64933	1CT:3CT	1.20	30	0.50	0.70	1.60	HC/4	1-5
PE-64934	1:1	1.20	25	0.50	0.70	0.70	HC/1	1-2
PE-64936	1CT:1	1.20	25	0.80	0.70	0.70	HC/3	1-5
PE-64937	1:1.36	1.20	35	0.80	0.70	0.80	HC/1	5-6
PE-64940	1.26CS:1 (1:1:1.58)	0.30	30	0.60	0.80	0.60	HC/2	1-4
PE-64941 ^D	1CS:1	0.80	30	0.60	0.80	0.60	HC/2	1-4
PE-64942	1CS:1.31	0.80	30	0.40	0.80	0.60	HC/2	1-4
PE-64943 ^A	1CT:2CT	1.20	30	0.30-0.55	0.70	1.20	HC/4	1-5
PE-65351 ^G	1:2CT	1.20	40	0.50	0.70	1.30	HC/3	2-6
PE-65363	1:4CT	0.50	40	1.00	0.50	1.50	HC/5	1-5
PE-65379	1:1.14CT	1.20	35	0.80	0.70	0.80	HC/5	1-5
PE-65388	1:1.15CT	1.50	35	0.60	0.70	0.90	HC/3	2-6
PE-65389 ^E	1:1/1.26	1.50	40	0.40	0.70	0.90	HC/3	2-6
PE-65415	1CT:2CT	1.20	30	0.50	0.70	1.20	HC/4	1-5
PE-65558	1:2.3CT	1.20	35	0.80	0.70	1.40	HC/5	1-5
PE-65586	1:1.36CT	1.20	35	0.80	0.70	0.90	HC/5	1-5
PE-65755	1CT:1CT	1.20	25	0.80	0.80	0.80	HC/4	1-5
PE-68644	1CT:1	0.70	20	0.70	0.20	0.80	HC/3	1-5
PE-68645	1:1.36CT	0.70	20	0.70	0.50	0.40	HC/5	1-5
T1054	1:1.5CT	1.20	30	0.60	0.70	1.00	HC/3	2-6
EXTENDED TEMPERATURE RANGE SINGLE TRANSFORMERS 1 – OPERATING TEMPERATURE -40°C TO +85°C								
PE-65340	1:1.36	1.20	35	0.80	0.90	1.20	HC/1	5-6
PE-65770	1:1.15CT	1.50	40	0.80	0.90	1.00	HC/3	2-6
PE-65771	1CT:2CT	1.20	50	0.60	1.00	2.00	HC/4	2-6
PE-65778	1CT:1CT	1.20	40	1.00	1.00	1.00	HC/4	1-5
PE-68600	1CT:3CT	1.20	60	0.80	0.90	2.70	HC/4	1-5
PE-68664 ^E	1:1/1.26	1.50	50	0.80	0.90	1.10	HC/3	2-6

(See Pages 6 and 7 for Table Notes)

Mechanical

Schematics

HC



Weight 1.2 grams
Tube60/tube

T1/CEPT/ISDN-PRI TRANSFORMERS

Dual Through Hole, 1500 Vrms

UL 1459 Recognized



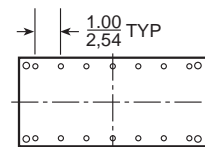
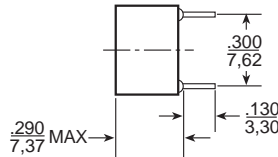
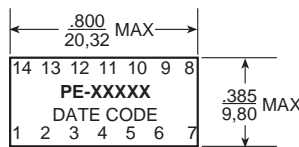
Electrical Specifications @ 25°C

Part Number	Turns Ratio ^B (Pri:Sec ±5%)	OCL @ 25°C (mH MIN)	Cw/w (pF MAX)	L _L (μH MAX)	DCR Pri (Ω MAX)	DCR Sec (Ω MAX)	Package/ Schematic	Primary Pins
STANDARD TEMPERATURE RANGE DUAL TRANSFORMERS – OPERATING TEMPERATURE 0°C to +70°C								
PE-64951	1:2CT & 1:2CT	1.20 & 1.20	35 & 35	0.50 & 0.50	0.70 & 0.70	1.20 & 1.20	HD/1	14-12, 5-7
PE-64952	1:2CT & 1:1.36	1.20 & 1.20	35 & 35	0.50 & 0.80	0.80 & 0.80	1.20 & 1.00	HD/2	14-12, 5-7
PE-64953	1:2CT & 1:2CT	2.00 & 2.00	50 & 50	0.60 & 0.60	1.00 & 1.00	2.00 & 2.00	HD/3	14-12, 10-8
PE-64954 ^A	1CT:2CT & 1:1	1.20 & 1.20	30 & 30	0.30-0.55 & 0.50	0.70 & 0.70	1.20 & 0.70	HD/4	1-3, 5-7
PE-64955	1:1.26CT & 1.58:1	0.80 & 0.80	30 & 30	0.50 & 0.50	0.60 & 0.60	0.70 & 0.30	HD/5	1-3, 5-7
PE-64956 ^D	1:1CT & 2:1	0.80 & 0.80	30 & 30	0.60 & 0.60	0.50 & 0.50	0.50 & 0.20	HD/5	1-3, 5-7
PE-64957	1CT:1.31 & 2.62:1	1.20 & 1.20	30 & 30	0.80 & 0.80	0.60 & 0.60	0.50 & 0.30	HD/5	1-3, 5-7
PE-65565	1:1.15CT & 1:2CT	1.50 & 1.20	35 & 40	0.60 & 0.50	0.70 & 0.70	1.10 & 1.30	TD/1	14-12, 5-7
PE-65566 ^E	1:1/1.26 & 1:2CT	1.50 & 1.20	40 & 40	0.50 & 0.40	0.70 & 0.70	0.90 & 1.30	TD/1	14-12, 5-7
EXTENDED TEMPERATURE RANGE DUAL TRANSFORMERS ¹ – OPERATING TEMPERATURE -40°C to +85°C								
PE-65567	1:1.15CT & 1:2CT	1.50 & 1.20	40 & 60	0.80 & 0.80	0.90 & 0.90	1.00 & 1.70	TD/1	14-12, 5-7
PE-65568 ^E	1:1/1.26 & 1:2CT	1.50 & 1.20	50 & 60	0.80 & 0.80	0.90 & 0.90	1.00 & 1.70	TD/1	14-12, 5-7
PE-65774	1CT:2CT & 1:1.36CT	1.20 & 1.20	50 & 50	0.96 & 0.80	1.00 & 1.00	1.70 & 1.20	TD/7	14-12, 5-7
PE-68618 ^H	1CT:1CT & 3CT:1CT:25	1.20 & 32.0 ^H	40 & 65	0.80 & 0.80	1.00 & 3.00	1.00 & 1.20	BD/6	1-3, 11-9
PE-64950 ^H	1CT:1CT & 1CT:3CT:1	1.20 & 0.60	40 & 40	0.80 & 0.80	1.00 & 0.80	1.00 & 2.00	BD/6	1-3, 4-6

(See Pages 6 and 7 for Table Notes)

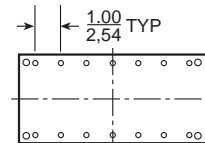
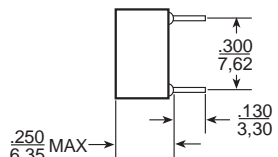
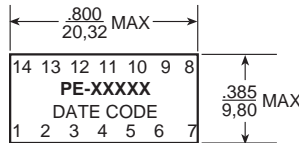
Mechanicals

**TD
DUAL**



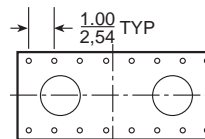
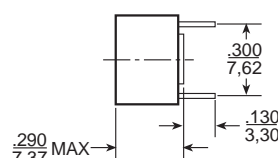
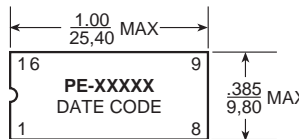
Weight 2.6 grams
Tube25/tube

**HD
DUAL**



Weight 2.3 grams
Tube25/tube

**BD
DUAL**



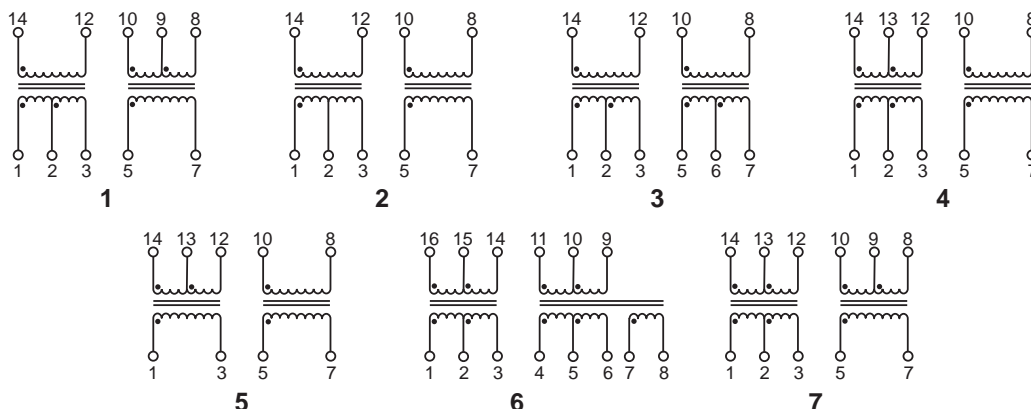
Weight 3.1 grams
Tube25/tube

Note: Leads are 24 AWG solderable.

Dimensions: Inches
mm

Unless otherwise specified all tolerances are ±.010
0,25

Schematics

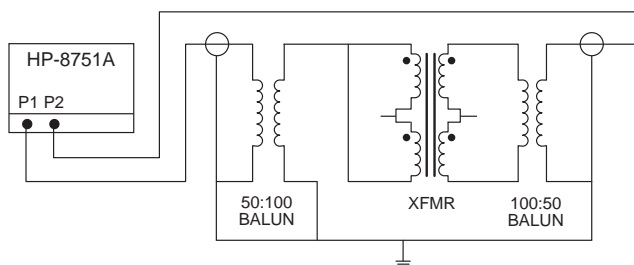


T1/CEPT/ISDN-PRI TRANSFORMERS

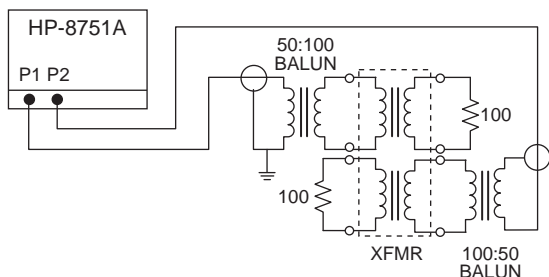
Application Notes



- Extended Temperature Range Models** — For extended temperature range transformers (-40°C to +85°C operating temperature range), OCL (Open Circuit Inductance for the primary winding) is specified at both -40°C and +25°C. At -40°C, OCL is 600 μH minimum for all low temperature models with the exception of PE-68827 which is 800 μH minimum and PE-65836 which is 300 μH minimum. All other parameters are specified at +25°C only. Standard temperature range is 0°C to +70°C.
- ET Product** — All coils have an ET product of 10 V-usec minimum.
- Flammability** — Materials used in the products are recognized as UL94-V0 approved. Products meet the requirements of IEC 695-2-2 (Needle Flame Test).
- Balance Characteristics** — The transformers meet the requirements for longitudinal balance of FCC part 68.
- Common Mode Rejection Ratio** — the CMRR for all transformers is better than 50 dB at 1 MHz. A typical test circuit is shown below.



- Crosstalk Attenuation** — In the dual packages, which contain transmit and receive transformers side by side, sufficient crosstalk attenuation is achieved by the inherent characteristics of the toroid cores as well as by their proper positioning. The crosstalk attenuation is typically 50 dB or better from 100 KHz to 10 MHz. This result was established with the test circuit shown below.



- Return Loss** — ITU-T G.703 and European national regulatory documents specify minimum return loss levels. The transformers will allow these limits to be complied within the situations where they are applicable.

Frequency	50-100 KHz	100 KHz-2 MHz	2-3 MHz
Return Loss			
XMIT	9 dB	15 dB	11 dB
REC	12 dB	18 dB	14 dB

- Surge Voltage Capability** — All transformers and chokes meet surge voltage tests according to the most stringent regulatory documents when system designs include the proper voltage and current suppression devices:

Metallic Voltage: 800 V peak, 10/560 μsec
 Longitudinal Voltage: 2,400 V peak, 10/700 μsec

- Isolation Voltage** — 100% of transformers are tested during production to the specified isolation voltage level.
- Safety Agency Recognition** — Parts listed as "Recognized" or "Certified" meet Underwriter Laboratories, UL 1459 and UL 1950 per file E133523 (S).

British Approvals Board for Telecommunications

BABT BS 6301:1989/BS 415 and BS EN 41003:1991/EN 60 950, supplementary insulation.

CR/0091

PE-64933	PE-65351	PE-65558	PE-68600
PE-64934	PE-65363	PE-65586	PE-68644
PE-64936	PE-65379	PE-65755	PE-68645
PE-64937	PE-65388	PE-65770	PE-68664
PE-64943	PE-65389	PE-65771	
PE-65340	PE-65415	PE-65778	

Transformers with Reinforced Insulation according to IEC950 series PE-68630—PE-68788 (page 3) are certified by the following organizations:

Code Certificate Information

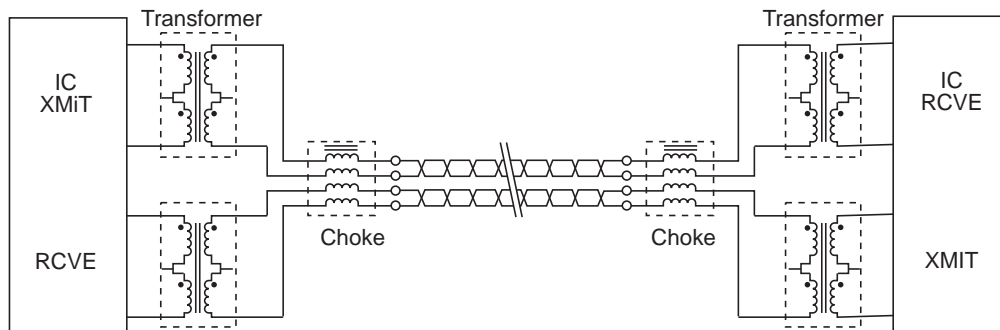
C	CSA, C22.2 #950 & #225, Cert. LR 76802-3, reinforced insulation.
T	TÜV, EN 60 950/EN 41003, Cert. R9371358, reinforced insulation.
U	UL 1459/UL1950, File E133523 (S), reinforced insulation.
B	BABT EN41003/EN60950, Cert. CR0079, reinforced insulation.

(Note: Safety Agency approval of surface mount transformers is pending.)

- General Information** — The transformers are specifically designed for use in 1.544 Mbps (T1), 2.048 Mbps (CEPT) and ISDN Primary rate (PRI) interface applications. They are matched to the majority of the line interface transceiver ICs currently available. Use of the proper transformer allows the interface circuit to comply with ITU-T G.703 and other standards regarding pulse waveform, return loss, and balance.

- Common Mode Chokes** — The "high-frequency" 4-lines common mode chokes shown in this data sheet provide an effective means of compliance with national and international regulations on EMI. They are designed to be used in conjunction with Pulse's T1/CEPT transformers as shown in the typical application below. Crosstalk is typically -70 db at 1 MHz and -55 dB at 10 MHz.

Typical Application



COMMON MODE CHOKES FOR TELECOM APPLICATIONS

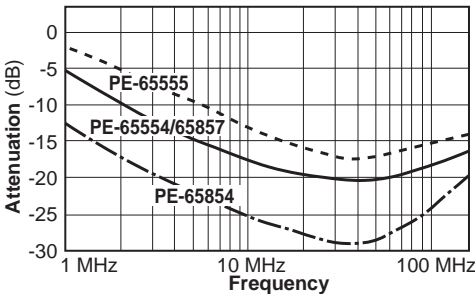
For EMI Reduction



Electrical Specifications @ 25°C — Operating Temperature 0°C to 70°C

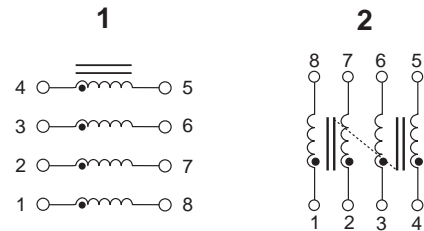
Pulse Part Number	Turns Ratio (±5%)	OCL (μH MIN)	C _{w/w} (pF MAX)	L _L (μH MAX)	DCR (Ω MAX)	Isolation (Vrms MIN)	Package/Schematic
HIGH FREQUENCY COMMON MODE CHOKES, 4-LINES							
PE-65554	1:1:1:1	24.0	15	.20	0.30	500	IN/1 (Through Hole)
PE-65555	1:1:1:1	8.0	10	.20	0.25	500	IN/1 (Through Hole)
PE-65854	1:1:1:1	47.0	16	.20	0.30	500	SH/1 (Surface Mount)
PE-65857	1:1:1:1	24.0	15	.23	0.30	500	LA/2 (Surface Mount)

NOTE: For additional Common Mode Chokes, refer to data sheet G002.

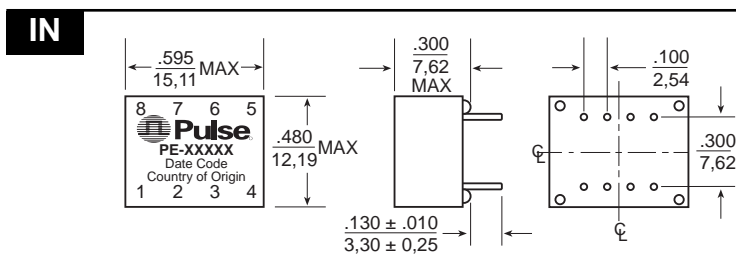
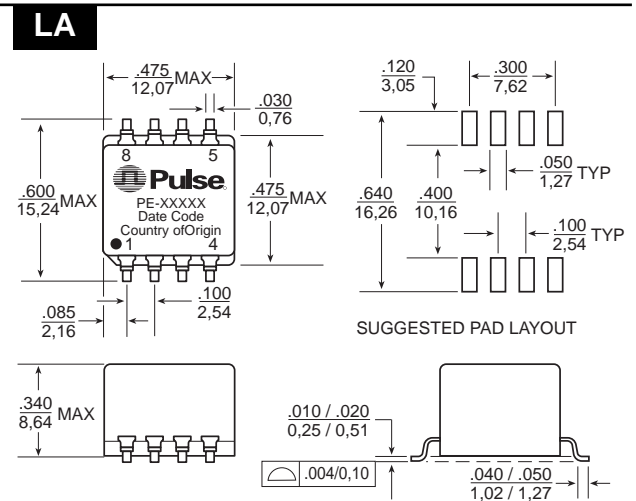
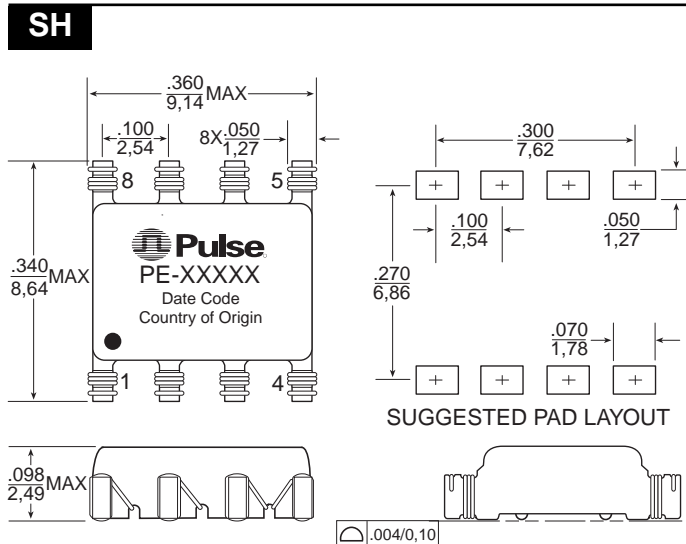


Typical common mode attenuation for high frequency common mode chokes based on a 100 Ω system.

Schematics



Mechanicals



	SH	LA	IN
Weight	.0.3 grams	.2 grams	.2.5 grams
Tape & Reel	.1500/reel	.250/reel	.(N/A)
Tube	.25/tube	.30/tube	.35/tube

Dimensions: Inches / mm
Unless otherwise specified all tolerances are ± .010 / 0.25

For More Information :

Corporate	Europe	Asia	Distributor
12220 World Trade Drive San Diego, CA 92128 Tel: 619 674 8100 FAX: 619 674 8262 http://www.pulseeng.com Quick-Facts: 619 674 9672	1 & 2 Huxley Road The Surrey Research Park Guildford, Surrey GU2 5RE United Kingdom Tel: 44 1483 401700 FAX: 44 1483 401701	150 Kampong Ampat #07-01/02 KA Centre Singapore 368324 Tel: 65 287 8998 FAX: 65 280 0080	

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