

# T1/CEPT/ISDN-PRI TRANSFORMERS

## Dual Surface Mount, 1500Vrms, Small Package



- Dual SMT package contains both transmit and receive transformers
- Models matched to leading transceiver ICs
- UL recognized (some parts pending approval)
- RoHS compliant versions available upon request

### Electrical Specifications @ 25°C

Part # (STD temp.)	Part # (EXT temp.)	Turns Ratio <sup>B</sup> (Pri:Sec ±5%)	OCL (mH MIN)	C <sub>w/w</sub> (pF MAX)	L <sub>L</sub> (μH MAX)	DCR Pri (Ω MAX)	Package/Schematic	Primary Pins
PE-65861	T1090	1CT:2CT & 1CT:2CT	1.20 & 1.20	30 & 30	.60 & .60	0.70 & 0.70	BH/1	16-14, 6-8
PE-65862	T1091	1CT:2CT & 1:1.36CT	1.20 & 1.20	30 & 30	.60 & .60	0.70 & 0.70	BH/2	16-14, 6-8
PE-65865	T1076	1:1.15CT & 1CT:2CT	1.20 & 1.20	30 & 30	.60 & .60	0.70 & 0.70	BH/3	16-14, 6-8
PE-65866 <sup>E</sup>	T1092 <sup>E</sup>	1:1/1.26 & 1CT:2CT	1.20 & 1.20	30 & 30	.60 & .60	0.70 & 0.70	BH/3	16-14, 6-8
PE-65870	T1093	1CT:1.15CT & 1CT:1.15CT	1.20 & 1.20	30 & 30	.60 & .60	0.70 & 0.70	BH/1	1-3, 6-8
T1022	T1077	1CT:1CT & 1CT:1.5CT	1.20 & 1.20	30 & 30	.80 & .80	0.70 & 0.70	BH/1	16-14, 6-8
PE-68678	T1094	1CT:1CT & 1CT:2CT	1.20 & 1.20	30 & 30	.60 & .60	0.70 & 0.70	BH/1	16-14, 6-8
PE-68786	T1095	1CT:1.41CT & 1CT:1.41CT	1.00 & 1.00	30 & 30	.60 & .60	0.70 & 0.70	BH/1	16-14, 11-9
T1023	T1096	1CT:1.41CT & 1CT:1.41CT	1.00 & 1.00	30 & 30	.60 & .60	0.70 & 0.70	BH/1	1-3, 11-9
—	T1144	1CT:1CT & 1CT:2.4CT	1.00 & 1.00	30 & 30	.80 & .80	0.85 & 0.85	BH/1	9-11, 1-3
—	T1097	1CT:1CT & 1CT:1.67CT	1.00 & 1.00	25 & 25	.80 & .80	0.80 & 0.80	BH/1	6-8, 14-16
T1136	—	1CT:1CT & 1CT:1.36CT	1.20 & 1.20	30 & 30	.60 & .60	0.70 & 0.70	BH/1	6-8, 1-3
T1121	—	1CT:1.5CT & 1CT:1.5CT	1.50 & 1.50	40 & 40	.80 & .80	0.70 & 0.70	BH/1	1-3, 6-8
T1122	—	1CT:2CT & 1CT:2.3CT	1.20 & 1.20	30 & 30	.80 & .80	0.90 & 0.90	BH/1	6-8, 14-16
T1021 <sup>I</sup>	—	2CT:1/1.26 & 2CT:1/1.26	1.50 & 1.50	40 & 40	.50 & .50	0.70 & 0.70	BH/1	1-3, 11-9
T1075 <sup>I</sup>	—	2CS:1.57/2 & 2CS:1.57/2	1.50 & 1.50	40 & 40	.50 & .50	0.70 & 0.70	BH/4	1-2, 5-6
T1190	—	1CT:1CT & 1CT:1.36CT	1.20 & 1.20	30 & 30	.60 & .60	0.70 & 0.70	BH/1	16-14, 6-8
T1137	TX1287	1CT:2.42CT & 1CT:2.42CT	1.20 & 1.20	25 & 25	.60 & .60	0.70 & 0.70	BH/1	1-3, 6-8
—	T1146	1:2/2.4 & 1:0.79/1	1.00 & 1.00	35 & 35	1.00 & 1.00	0.80 & 0.80	BH/5	1-3, 6-8
T1286	—	1CT:2.4CT & 1CT:2.4CT	1.20 & 1.20	15 & 15	.30 & .30	0.30 & 0.30	BH/1	1-3, 6-8
—	TX1317	1:2CT & 1:2CS	1.20 & 1.20	35 & 35	.50 & 1.00	1.00 & 1.00	BH/6	1-3, 11-9
—	TX1189	1:1.36CT & 1:2CT	1.20 & 1.20	30 & 30	.60 & .60	1.00 & 1.00	BH/7	16-14, 6-8
—	TX1188	1CT:2CT & 1CT:2CT	1.20 & 1.20	30 & 30	.60 & .60	0.70 & 0.70	BH/1	1-3, 6-8
—	TX1187	1CT:2CT & 1:1	1.20 & 1.20	30 & 30	.60 & .60	0.70 & 0.70	BH/8	1-3, 6-8
—	TX1088	1CT:2CT & 1CT:2.42CT	1.20 & 1.20	35 & 35	.80 & .80	1.00 & 1.00	BH/1	1-3, 6-8
—	TX1089	1CT:1CT & 1CT:1CT	1.20 & 1.20	30 & 30	.80 & .80	0.70 & 0.70	BH/1	1-3, 6-8
—	TX1098	1CT:1.26CT & 1CT:1.26CT	1.20 & 1.20	30 & 30	.60 & .60	0.70 & 0.70	BH/1	1-3, 6-8
—	TX1099	1CT:1:0.8 & 1CT:1:0.8	1.20 & 1.20	30 & 30	.80 & .80	1.00 & 1.00	BH/4	16-14, 11-9
—	TX1186	1CT:1.58:2 & 1:1.65:2	1.20 & 1.20	30 & 30	.80 & .80	1.00 & 1.00	BH/9	2-4, 6-7
—	TX1467	1CT:1:1 & 1CT:1:1	1.20 & 1.20	30 & 30	.80 & .80	1.00 & 1.00	BH/4	16-14, 11-9

NOTE: Standard (STD) operating temperature range is 0°C to 70°C. Extended (EXT) operating temperature range is -40°C to +85°C. RoHS-6 compliant parts can be ordered by adding an "NL" suffix to the part number (i.e. PE-65861 becomes PE-65861NL). (See Pages 6 and 7 for Table Notes)

### Mechanical

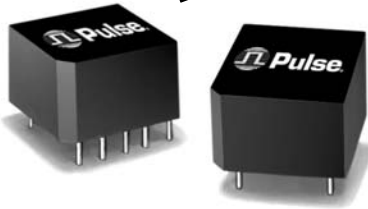
### Schematics

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

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

# T1/CEPT/ISDN-PRI TRANSFORMERS

## Single Reinforced Insulation, 3KVrms



- Certified for reinforced insulation per UL
- For T1/CEPT line interfaces
- Matched to leading transceiver ICs
- Designed to meet ITU-T G.703
- RoHS compliant versions available upon request

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

Part Number	Turns Ratio <sup>B</sup> (±5%)	OCL <sup>B</sup> (mH MIN)	C <sub>WWW</sub> (pF MAX)	L <sub>L</sub> (μH MAX)	DCR Pri (Ω MAX)	DCR Sec (Ω MAX)	Safety Agency Recognition <sup>10</sup>	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 <sup>A</sup>	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	15	0.80	0.70	1.10	C,T,U,B	IS/1	1-5
PE-65836	1CT:3CT:1	.600	30	0.80	0.70	1.70	C,T,U,B	IS/5	1-3
PE-65837 <sup>E</sup>	1:1.08/1.36	1.50	20	0.60	0.70	0.90	C,T,U,B	IS/4	10-6
PE-65838	1:1.14CT	1.50	30	1.00	0.70	0.90	C,T,U,B	IS/4	10-6
PE-65839 <sup>E</sup>	1:1/1.26	1.50	35	0.60	0.70	1.10	C,T,U,B	IS/4	10-6
PE-68646 <sup>E</sup>	1:1.58/2	1.50	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	T,U,B	IS/1	10-6

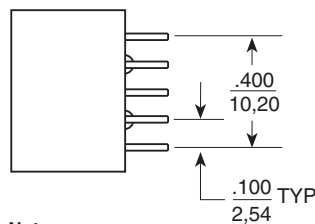
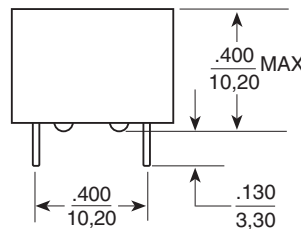
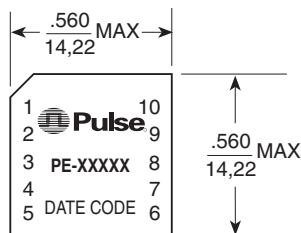
NOTE: RoHS-6 compliant parts can be ordered by adding an "NL" suffix to the part number (i.e. PE-65830 becomes PE-65830NL).

(See Pages 6 and 7 for Table Notes)

## Mechanical

## Schematics

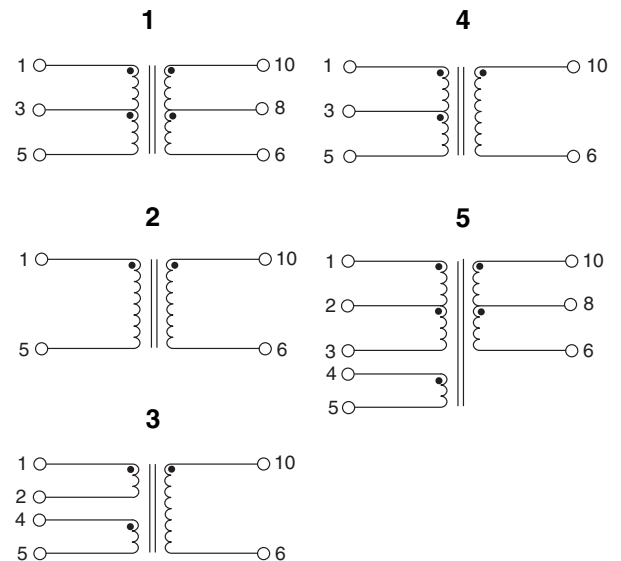
### IS



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

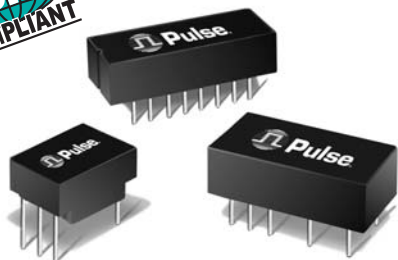
**Weight** ..... 4 grams  
**Tube** ..... .35/tube

**Dimensions:**  $\frac{\text{Inches}}{\text{mm}}$   
Unless otherwise specified,  
all tolerances are  $\pm \frac{.010}{0.25}$



# T1/CEPT/ISDN-PRI TRANSFORMERS

## Single Through Hole, 1500Vrms



- ⊕ Extended and standard temperature range
- ⊕ Dual and single through hole models available
- ⊕ Models matched to leading transceiver ICs
- ⊕ UL recognized
- ⊕ Isolation Voltage: 1500Vrms MIN
- ⊕ RoHS compliant versions available upon request

### Electrical Specifications @ 25°C

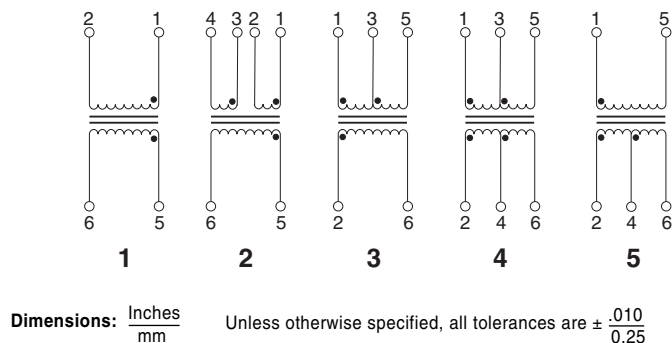
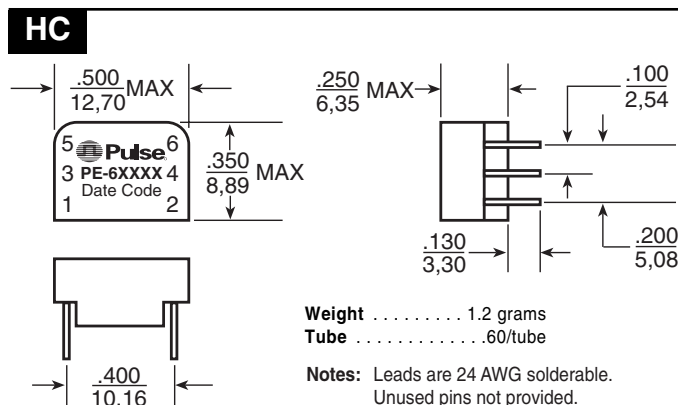
Part Number	Turns Ratio <sup>B</sup> (Pri:Sec ±5%)	OCL @ 25°C (mH MIN)	C <sub>w/w</sub> (pF MAX)	L <sub>L</sub> (μH MAX)	DCR Pri (Ω MAX)	DCR Sec (Ω MAX)	Package/ Schematic	Primary Pins
<b>STANDARD TEMPERATURE RANGE SINGLE TRANSFORMERS – OPERATING TEMPERATURE 0°C TO +70°C</b>								
PE-64931	1:1:1 (1:2CS)	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 <sup>D</sup>	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 <sup>A</sup>	1CT:2CT	1.20	30	0.30-0.55	0.70	1.20	HC/4	1-5
PE-65351	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 <sup>E</sup>	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
T1249	1:1.26CT	1.20	60	0.80	0.90	1.00	HC/4	2-6
<b>EXTENDED TEMPERATURE RANGE SINGLE TRANSFORMERS 1 – OPERATING TEMPERATURE -40°C TO +85°C</b>								
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 <sup>E</sup>	1:1/1.26	1.50	50	0.80	0.90	1.10	HC/3	2-6
TX1252	1CT:1	1.20	40	1.00	1.00	1.00	HC/3	1-5

NOTE: RoHS-6 compliant parts can be ordered by adding an "NL" suffix to the part number (i.e. PE-64931 becomes PE-64931NL).

(See Pages 6 and 7 for Table Notes)

### Mechanical

### Schematics



# T1/CEPT/ISDN-PRI TRANSFORMERS

## Dual Through Hole, 1500Vrms



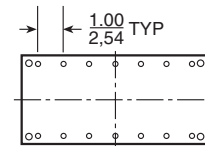
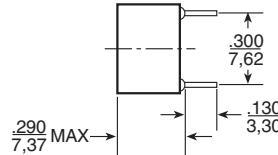
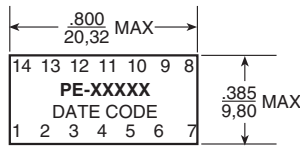
### Electrical Specifications @ 25°C

Part Number	Turns Ratio <sup>B</sup> (Pri:Sec ±5%)	OCL @ 25°C (mH MIN)	C <sub>w/w</sub> (pF MAX)	L <sub>L</sub> (μH MAX)	DCR Pri (Ω MAX)	DCR Sec (Ω MAX)	Package/ Schematic	Primary Pins
<b>STANDARD TEMPERATURE RANGE DUAL TRANSFORMERS – OPERATING TEMPERATURE 0°C TO +70°C</b>								
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 <sup>A</sup>	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	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 <sup>E</sup>	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
<b>EXTENDED TEMPERATURE RANGE DUAL TRANSFORMERS <sup>1</sup> – OPERATING TEMPERATURE -40°C TO +85°C</b>								
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 <sup>E</sup>	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 <sup>G</sup>	1CT:1CT & 3CT:1CT:25	1.20 & 32.0	40 & 65	0.80 & 0.80	1.00 & 3.00	1.00 & 1.20	BD/6	1-3, 11-9
PE-64950 <sup>G</sup>	1CT:1CT & 1CT:3CT:1	1.20 & 0.60	50 & 50	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)

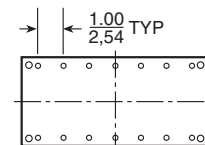
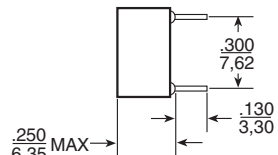
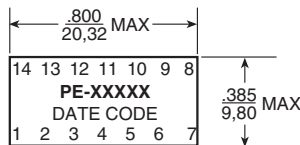
### Mechanicals

**TD  
DUAL**



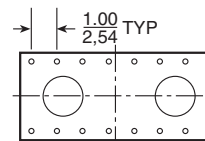
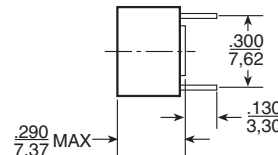
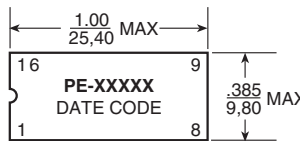
Weight ..... 2.6 grams  
Tube ..... .25/tube

**HD  
DUAL**



Weight ..... 2.3 grams  
Tube ..... .25/tube

**BD  
DUAL**



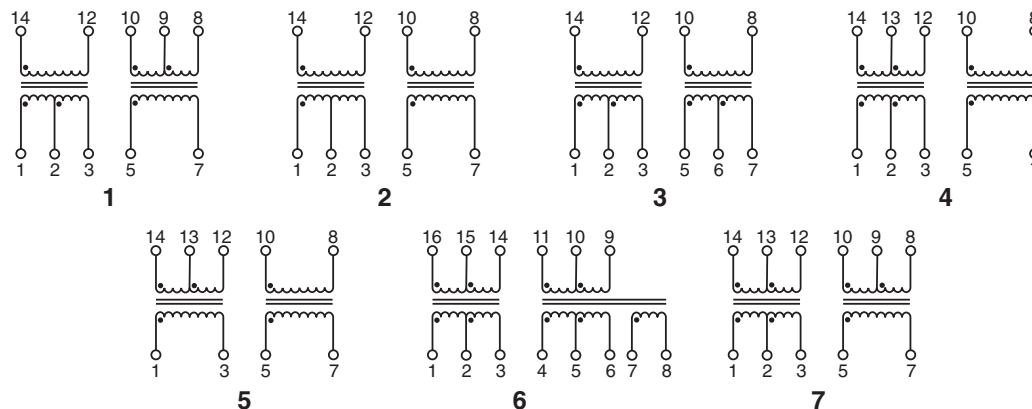
Weight ..... 3.1 grams  
Tube ..... .25/tube

Note: Leads are 24 AWG solderable.

Dimensions: Inches  
mm

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

### Schematics



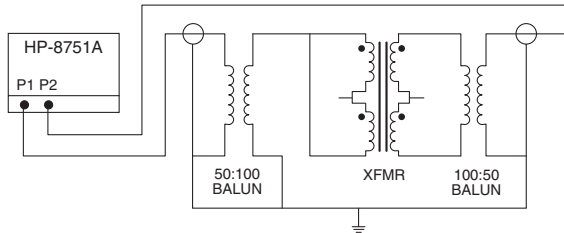


# T1/CEPT/ISDN-PRI TRANSFORMERS

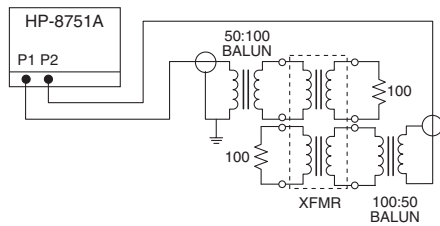
## Application Notes



- 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-μsec minimum.
- Flammability** — Materials used in the products are recognized as UL94-VO 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 100kHz to 10MHz. 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	50-100kHz	100kHz-2 MHz	2-3MHz
Return Loss			
XMIT	9 dB	15dB	11dB
REC	12 dB	18dB	14dB

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

- 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).

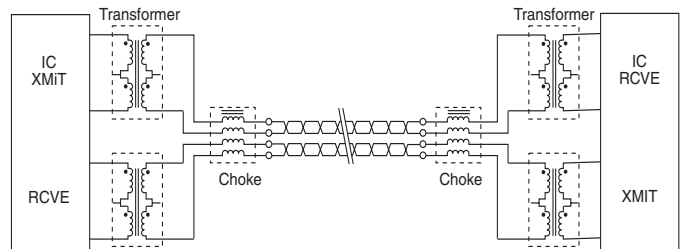
**Transformers with Reinforced Insulation according to IEC950 series PE-68630—PE-68788 (pg. 3) are certified by the following organizations:**

Code	Certificate Information
T	TÜV, EN 60 950/EN 41003, Cert. R9371358, reinforced insulation.
U	UL 1459/UL1950, File E133523 (S), reinforced insulation.

- 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 -70dB at 1MHz and -55dB at 10MHz.

### Typical Application



#### NOTES FROM TABLES (pages 1 through 6):

- Toleranced leakage inductance: .30μH min to .55μH MAX.
- OCL (primary inductance) and LL (leakage inductance) are measured at the primary winding. Turns ratio is specified primary: secondary. (CT = Center Tap; CS = Split Center Tap).
- To make a 1CT:1 ratio from a 1CT:2CT ratio, use only one half of the secondary (2CT) winding.
- For Reinforced 3kVrms Dual SMT Transformers, refer to data sheet T617. For Quad SMT Transformers refer to data sheet T615. For Octal SMT Transformers refer to data sheet T622.
- Dual Ratio Transformers — These transformers have tapped secondary windings to provide two turns ratios (T/R). Use the entire primary winding and connect the secondary pins listed below to obtain the desired turns ratio:

Part Number	Turns Ratio 1	Secondary Pins	Turns Ratio 2	Secondary Pins
PE-65837	1:1.08	3-5	1:1.36	1 - 5
PE-65839	1:1	3-5	1:1.26	1 - 5
PE-65866	1:1	2-3	1:1.26	1 - 3
PE-68646	1:1.58	3-5	1:2	1 - 5
PE-65389	1:1	3-5	1:1.26	1 - 5
PE-65566	1:1	2-3	1:1.26	1 - 3
PE-65568	1:1	2-3	1:1.26	1 - 3
PE-68866	1:1	2-3	1:1.26	1 - 3
PE-68826	1:1	2-3	1:1.26	1 - 3
PE-68664	1:1	3-5	1:1.26	1 - 5
PE-68836	1:1	2-3/5-6	1:1.26	1-3/4-6

F. Standard packaging for surface mount "AN" and "LA" packages is anti-static tubes. Optional Tape & Reel packaging can be ordered by adding "T" suffix to the part number, (i.e. PE-65857T).

- PE-68618 and PE-64950: The fault locate winding is (7-8).
- Safety Agency approvals pending.
- The turns ratio of these devices have been designed, in conjunction with semiconductor vendor recommendations, to allow connections to various terminations (e.g. 75 or 120Ω with the same transformer). For example T1075 can be used with the Siemens PEB 2235 to achieve connection to the 75 or 120Ω cable. For 75 Ω termination, the PEB 2235 requires the following turns ratio: 1:1.57 (Tx) and 1:1.26 (Rx) which can be achieved using pins (1-2):(15-16) for Tx and (10-11):(5-8) for Rx. For 120Ω, the following turns ratio are required: 1:2 (Tx) and 1:1 (Rx), which are pins (1-2):(16-14) for Tx and (9-11):(5-8) for Rx on the T1075.

# COMMON MODE CHOKES FOR TELECOM APPLICATIONS

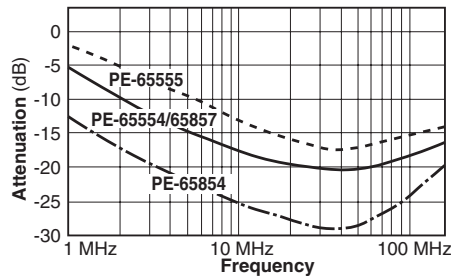
## For EMI Reduction



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

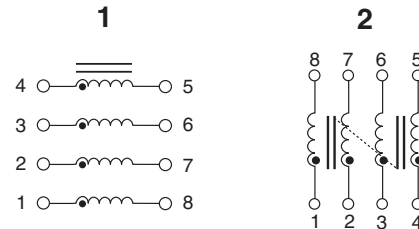
Pulse Part Number	Turns Ratio (±5%)	OCL (µH MIN)	Package/Schematic
<b>HIGH FREQUENCY COMMON MODE CHOKES, 4-LINES</b>			
PE-65554	1:1:1:1	24.0	IN/1 (Through Hole)
PE-65555	1:1:1:1	8.0	IN/1 (Through Hole)
PE-65854	1:1:1:1	47.0	SH/1 (Surface Mount)
PE-65857	1:1:1:1	24.0	LA/2 (Surface Mount)

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



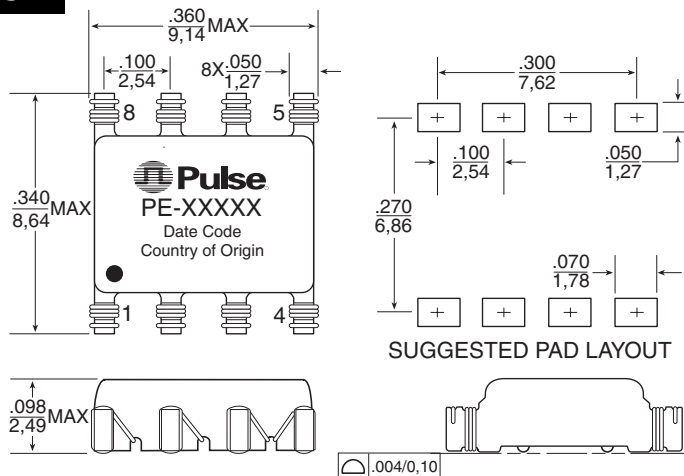
Typical common mode attenuation for high frequency common mode chokes based on a 100 Ω system.

### Schematics

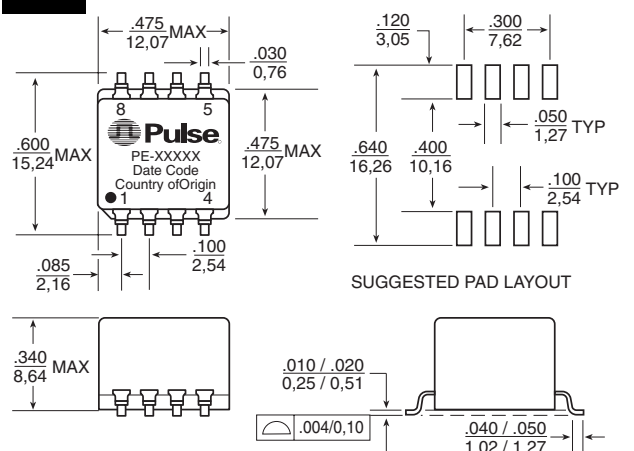


### Mechanicals

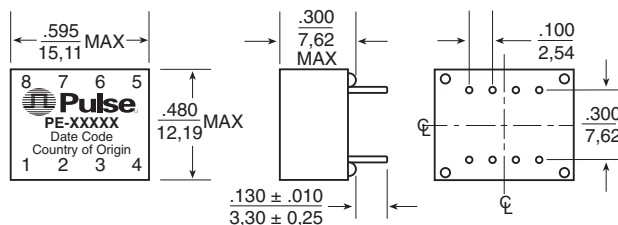
#### SH



#### LA



#### IN



	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:  $\frac{\text{Inches}}{\text{mm}}$

Unless otherwise specified all tolerances are  $\pm \frac{.010}{0.25}$

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