

# T1/CEPT/ISDN-PRI TRANSFORMERS

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



- Dual SMT package contains both transmit and receive transformers
- Models matched to leading transceiver ICs
- Isolation voltage: 1500Vrms
- UL recognized
- RoHS compliant versions available

### Electrical Specifications @ 25°C

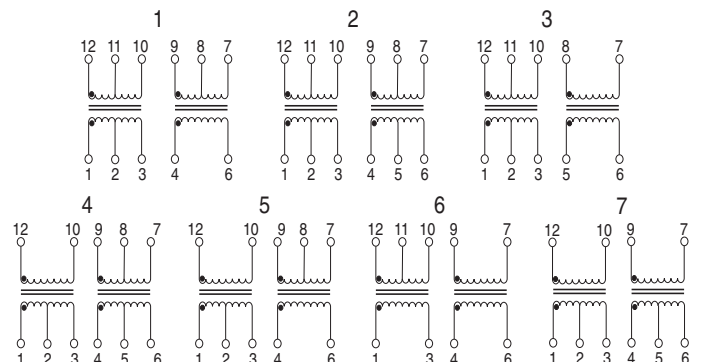
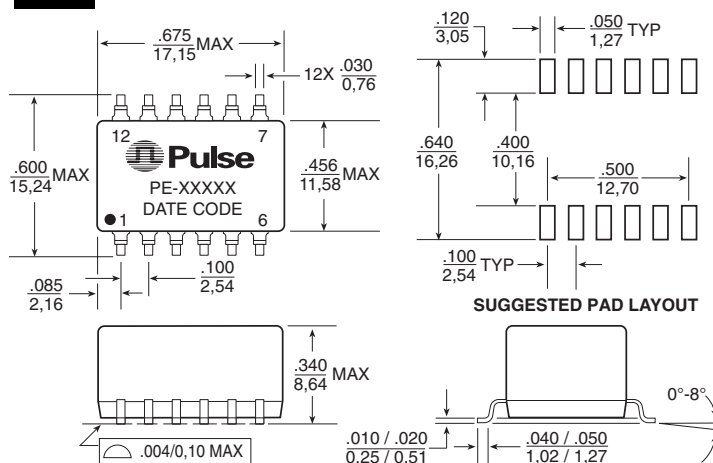
| Part Number                                                                                 | Turns Ratio <sup>B</sup><br>(Pri:Sec ± 2%) | OC <sub>L</sub> @ 25°C<br>(mH MIN) | L <sub>L</sub><br>(μH MAX) | C <sub>w/w</sub><br>(pF MAX) | DCR Pri<br>(Ω MAX) | DCR Sec<br>(Ω MAX) | Package/<br>Schematic | Primary<br>Pins |
|---------------------------------------------------------------------------------------------|--------------------------------------------|------------------------------------|----------------------------|------------------------------|--------------------|--------------------|-----------------------|-----------------|
| <b>EXTENDED TEMPERATURE RANGE MODELS<sup>1</sup> – OPERATING TEMPERATURE -40°C TO +85°C</b> |                                            |                                    |                            |                              |                    |                    |                       |                 |
| 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 <sup>E</sup>                                                                       | 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                                                                                    | 1:1CT & 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      |
| TX1277                                                                                      | 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        |
| <b>STANDARD TEMPERATURE RANGE MODELS – OPERATING TEMPERATURE 0°C TO +70°C</b>               |                                            |                                    |                            |                              |                    |                    |                       |                 |
| T1131 <sup>1</sup>                                                                          | 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 <sup>A</sup>                                                                       | 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 <sup>E</sup>                                                                       | 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 <sup>E</sup>                                                                       | 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: RoHS-6 compliant parts can be ordered by adding an "NL" suffix to the part number (i.e. PE-68841 becomes PE-68841NL). (See Pages 6 and 7 for Table Notes)

### Mechanical

### Schematics

AN



Weight ..... 4.0 grams  
Tape & Reel ..... .250/reel  
Tube ..... .30/tube

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