

# ISDN U-INTERFACE TRANSFORMERS

## For Applications with 2B1Q and 4B3T Coding



-  Matched to leading transceiver ICs
-  Parts meet ANSI T1.601-1992 and ETSI ETR 080
-  Transformer models with 2000 Vrms to 3000 Vrms minimum isolation
-  Recognized to UL1459 and UL1950
-  BABT certified to EN60950

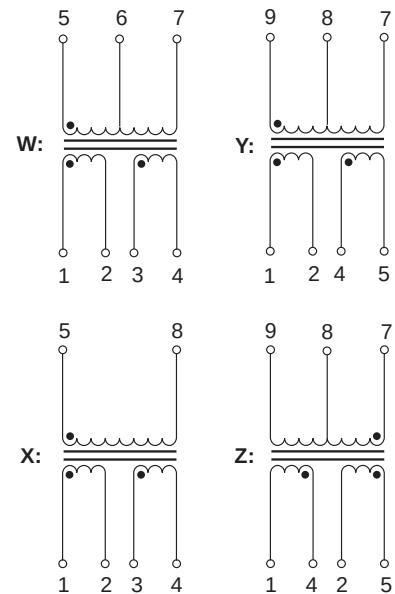
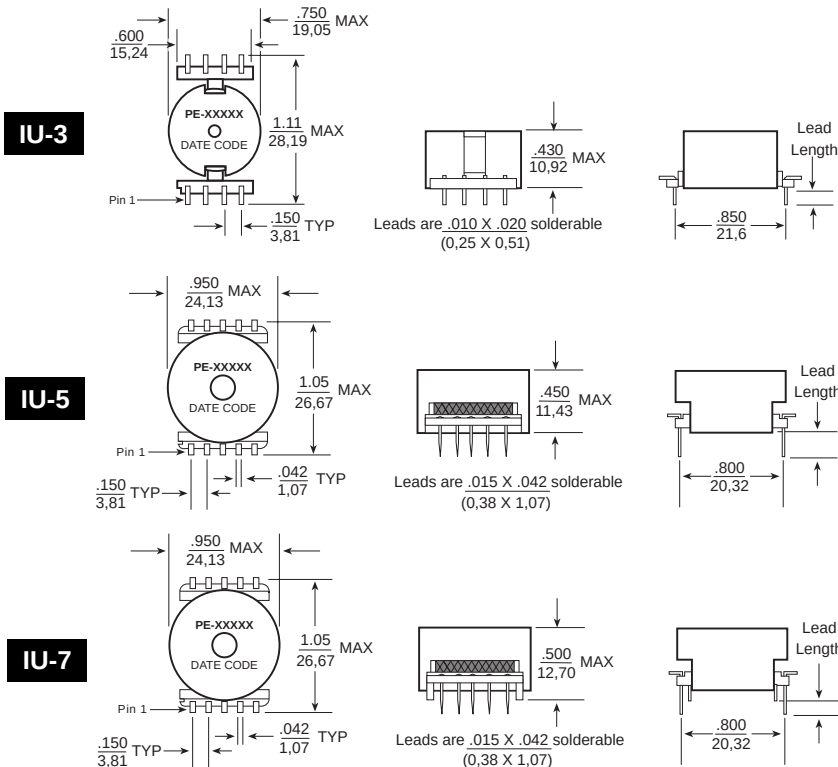
### Electrical Specifications @ 25°C — Operating Temperature 0°C to 70°C

| Isolation Voltage (Vrms MIN) | Part Number | Turns Ratio Line:Chip (±3%) | Line Side Pins | OCL Line side (mH) | DCR Line Side (Ω) | DCR Chip Side (Ω) | IDC (mA) | Lead Length               | Package/ Schematic  |
|------------------------------|-------------|-----------------------------|----------------|--------------------|-------------------|-------------------|----------|---------------------------|---------------------|
| 2000 Vrms                    | PE-65575*   | 1.65:1                      | (1-4)          | 13.0-18.0          | 5.2 ±15%          | 3.0 ±15%          | 50       | 0.15 ± 0.03 (3,81 ± 0,76) | IU-3/W <sup>4</sup> |
|                              | PE-65578    | 1.32:1                      | (1-4)          | 7.0-8.3            | 2.4 MAX           | 2.7 MAX           | 55       | 0.15 ± 0.03 (3,81 ± 0,76) | IU-3/X              |
|                              | PE-65579    | 2.00:1                      | (1-5)          | 25.5-28.5          | 11.6 MAX          | 6.4 MAX           | 60       | 0.17 ± 0.04 (4,32 ± 1,02) | IU-5/Y              |
|                              | PE-65581    | 1.50:1                      | (4-2)          | 14.2-15.8          | 16.0 MAX          | 2.5 MAX           | 60       | 0.17 ± 0.04 (4,32 ± 1,02) | IU-5/Z              |
|                              | PE-65583    | 1.50:1                      | (4-2)          | 25.6-29.0          | 20.0 MAX          | 3.0 MAX           | 60       | 0.16 ± 0.03 (4,06 ± 0,76) | IU-5/Z <sup>2</sup> |
|                              | PE-65584    | 1.50:1                      | (1-5)          | 25.6-29.0          | 20.0 MAX          | 3.0 MAX           | 60       | 0.17 ± 0.04 (4,32 ± 1,02) | IU-5/Y <sup>2</sup> |
| 2500 Vrms                    | PE-68628*   | 1.25:1                      | (1-5)          | 26.5-29.5          | 12.0 MAX          | 7.0 MAX           | 80       | 0.16 ± 0.03 (4,06 ± 0,76) | IU-5/Y <sup>2</sup> |
|                              | PE-68631    | 1.50:1                      | (4-2)          | 25.6-29.0          | 20.0 MAX          | 3.0 MAX           | 60       | 0.13 ± 0.03 (3,30 ± 0,76) | IU-7/Z <sup>2</sup> |
|                              | PE-68681    | 1.50:1                      | (1-5)          | 25.6-28.4          | 20.0 MAX          | 3.0 MAX           | 60       | 0.13 ± 0.03 (3,30 ± 0,76) | IU-7/Y <sup>2</sup> |
| 3000 Vrms                    | PE-68668*   | 1.25:1                      | (1-5)          | 26.5-29.5          | 13.0 MAX          | 7.5 MAX           | 80       | 0.13 ± 0.03 (3,30 ± 0,76) | IU-7/Y <sup>2</sup> |
|                              | PE-68669*   | 1.65:1                      | (1-4)          | 13.0-18.0          | 5.2 ±15%          | 3.0 ±15%          | 50       | 0.13 ± 0.03 (3,30 ± 0,76) | IU-3/W              |

NOTE: For surface mount versions of these parts, please see data sheet T614. New small surface mount package available. Contact Pulse Application Engineering at (619) 674-8100 for more information. \*Operating temperature range: -40°C to 85°C.

### Mechanicals

### Schematics



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

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

T603.D (12/98)

