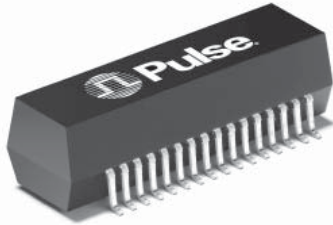








T3/DS3/E3/STS -1 TRANSFORMERS

Surface Mount Package



-  RoHS peak reflow temperature rating: 245°C
-  Quad transformers in SMT package supports two T1/E1 ports
-  Available in transmit and/or receive configurations
-  Models matched to leading quad, dual T1/E1/ CEPT transceivers
-  UL recognized
-  Isolation voltage: 1500 Vrms

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

| Part Number | Turns Ratio ^{A,B} (Pri:Sec ±2%) | OCL @ 25°C (mH MIN) | L _L (μH MAX) | C _{w/w} (pF MAX) | DCR Pri (MAX) | DCR Sec (MAX) | Package/ Schematic ^D | Primary Pins |
|----------------------|---|------------------------|----------------------------|------------------------------|------------------|------------------|------------------------------------|------------------------|
| T1001NL ^C | 1:1.36 / 1 | 1.2 | 0.40 | 30 | 0.7 | 1.0 | YB/1 | 1-3, 5-7, 10-12, 14-16 |
| T1006NL | 1:2CT | 1.2 | 0.35 | 30 | 0.6 | 1.0 | YB/1 | 1-3, 5-7, 10-12, 14-16 |
| T1007NL | 1:1.15CT | 1.2 | 0.70 | 23 | 0.6 | 0.8 | YB/1 | 1-3, 5-7, 10-12, 14-16 |
| T1009NL | 1:1.265 / 1 | 1.2 | 0.80 | 35 | 0.6 | 0.8 | YB/1 | 1-3, 5-7, 10-12, 14-16 |

- A. OCL (primary inductance) and LL (leakage inductance) are measured at the primary winding. **Turns Ratio** is specified primary: secondary (CT = Center Tap).
- B. To make a 1:1 ratio from a 1:2CT ratio, use one-half of the secondary (2CT) winding.
- C. **Dual Ratio Transformers** — These transformers have tapped secondary windings to provide two turns ratios (T/R). Use entire primary winding and connect secondary pins listed below to obtain desired turns ratio:

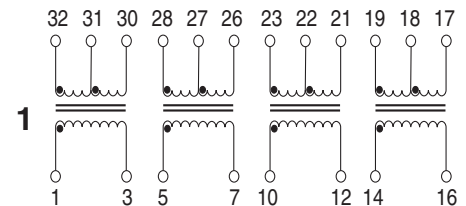
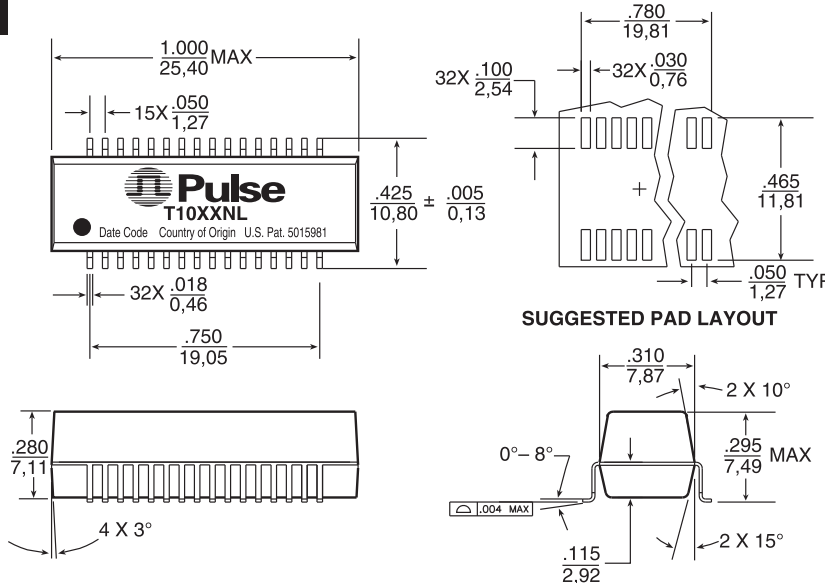
| Part Number | Turns Ratio 1 | Secondary Pins | Turns Ratio 2 | Secondary Pins |
|-------------|---------------|----------------------------|---------------|----------------------------|
| T1001NL | 1:1 | 31-32, 27-28, 22-23, 18-19 | 1:1.36 | 30-32, 26-28, 21-23, 17-19 |

- D. **Standard** packaging is anti-static tubes. Optional Tape & Reel packaging can be ordered by adding a "T" suffix to the part number, (i.e. T006NLT).

Mechanical

Schematic

YB



Weight 2.7 grams
Tape & Reel 200/reel
Tube 20/tube

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

T3/DS3/E3/STS -1 TRANSFORMERS

Surface Mount Package



| IC Manufacturer | IC Part Number | Application | Transmit/Receive | Pulse Part Number | Ratio | Pins |
|-----------------|----------------|-------------|------------------|-------------------|----------|--|
| LEVEL ONE | LXT3LXT32 | T1 | Receive | T1006NL | 1:2CT | (1-3) : (32-30), (5-7) : (28-26), (10-12) : (23-21), (14-16) : (19-17) |
| | | E1/CEPT | Transmit | T1006NL | 1:2 | (1-3) : (32-30), (5-7) : (28-26), (10-12) : (23-21), (14-16) : (19-17) |
| | | | Receive | T1006NL | 1:2CT | (1-3) : (32-30), (5-7) : (28-26), (10-12) : (23-21), (14-16) : (19-17) |
| VLSI | VP14Q575 | T1 | Transmit | T1007NL | 1:1.15 | (1-3) : (32-30), (5-7) : (28-26), (10-12) : (23-21), (14-16) : (19-17) |
| | | | Receive | T1006NL | 1:2CT | (1-3) : (32-30), (5-7) : (28-26), (10-12) : (23-21), (14-16) : (19-17) |
| | | E1/CEPT | Receive | T1006NL | 1:2CT | (1-3) : (32-30), (5-7) : (28-26), (10-12) : (23-21), (14-16) : (19-17) |
| AT&T/LUCENT | T7690 (5V) | T1 | Transmit | T1007NL | 1:1.15 | (1-3) : (32-30), (5-7) : (28-26), (10-12) : (23-21), (14-16) : (19-17) |
| | | | Receive | T1007NL | 1:1.15CT | (1-3) : (32-30), (5-7) : (28-26), (10-12) : (23-21), (14-16) : (19-17) |
| EXAR | XR-5793/5795 | T1 | Transmit | T1009NL | 1:1.265 | (1-3) : (32-30), (5-7) : (28-26), (10-12) : (23-21), (14-16) : (19-17) |
| | | | Receive | T1009NL | 1:1 | (1-3) : (32-31), (5-7) : (28-27), (10-12) : (23-22), (14-16) : (19-18) |
| | | 75Ω/E1 | Transmit | T1009NL | 1:1 | (1-3) : (32-31), (5-7) : (28-27), (10-12) : (23-22), (14-16) : (19-18) |
| | | 120Ω/CEPT | Transmit | T1009NL | 1:1.265 | (1-3) : (32-30), (5-7) : (28-26), (10-12) : (23-21), (14-16) : (19-17) |
| | | E1/CEPT | Receive | T1009NL | 1:1 | (1-3) : (32-31), (5-7) : (28-27), (10-12) : (23-22), (14-16) : (19-18) |

Common Mode Chokes for Telecom Applications

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) | LL (μH MAX) | DCR (Ω MAX) | Isolation (Vrms MIN) | Package |
|---|-------------------|--------------|---------------------------|-------------|-------------|----------------------|---------------|
| HIGH FREQUENCY COMMON MODE CHOKES, 4-LINES | | | | | | | |
| PE-65554NL | 1:1:1:1 | 24.0 | 15 | .20 | 0.30 | 500 | Through Hole |
| PE-65555NL | 1:1:1:1 | 8.0 | 10 | .20 | 0.25 | 500 | Through Hole |
| PE-65854NL | 1:1:1:1 | 47.0 | 16 | .20 | 0.30 | 500 | Surface Mount |
| PE-65857NL | 1:1:1:1 | 24.0 | 15 | .23 | 0.30 | 500 | Surface Mount |

NOTE: See the "G002" (Common Mode Choke Catalog) for mechanicals and schematics.

For More Information:

| | | | | | |
|--|---|---|--|--|--|
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|--|---|---|--|--|--|

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