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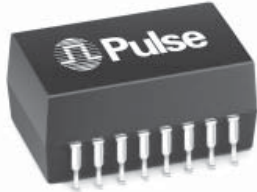
[Pulse Electronics Corporation](#)
[T1038NL](#)

For any questions, you can email us directly:

sales@integrated-circuit.com

T1/E1/CEPT/ISDN-PRI TRANSFORMERS

Reinforced Insulation, 3 kVrms, SMT



- RoHS-6 peak reflow temperature rating: 245°C
- Dual surface mount package contains both transmit and receive transformers
- Models matched to leading transceiver ICs
- 3 kV reinforced insulation barrier approved to UL



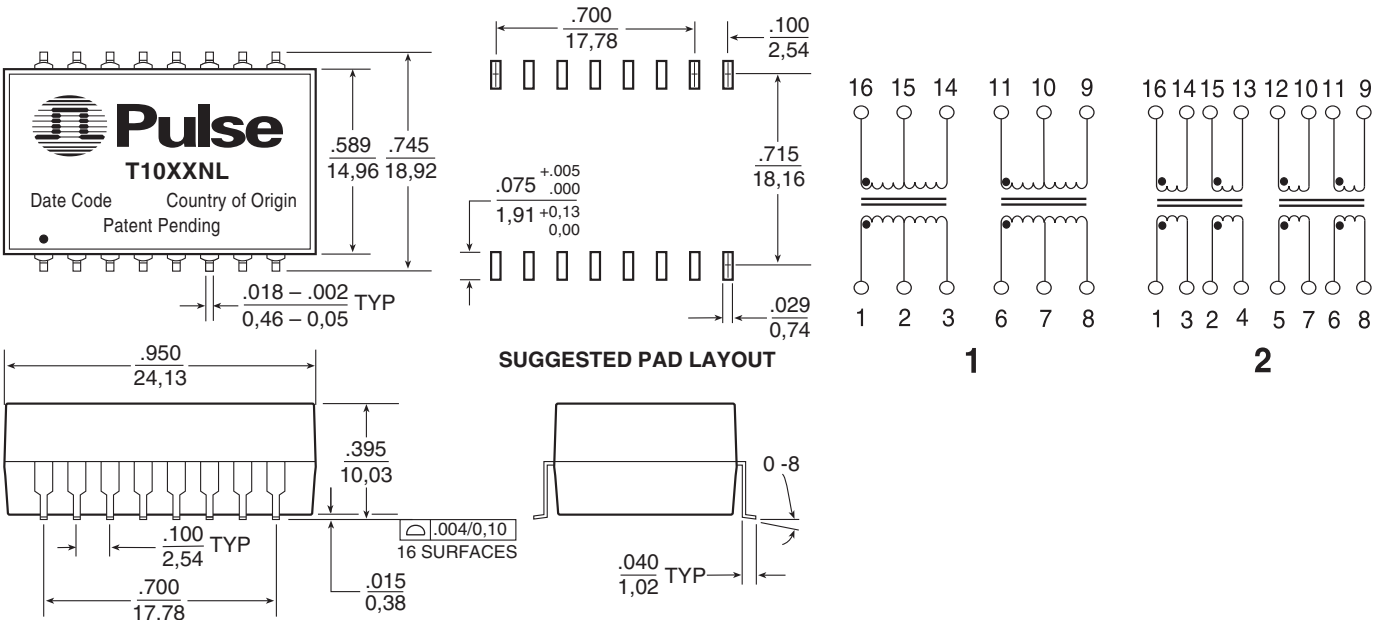
Electrical Specifications @ 25°C — Operating Temperature 0°C to 70°C

RoHS-6 Compliant Part Number	Turns Ratio (Pri:Sec ±2%)	OCL @ 25°C (mH MIN)	C _{w/w} (pF MAX)	DCR Pri (Ω MAX)	DCR Sec (Ω MAX)	Package/Schematic	Primary Pins
T1030NL	1CT:1CT & 1CT:1CT	1.20 & 1.20	15 & 15	1.00 & 1.00	1.00 & 1w.00	ZIN / 1	1-3, 6-8
T1035NL	1CS:1CS & 1CS:1.36CS	1.20 & 1.20	15 & 15	1.00 & 1.00	1.00 & 1.20	ZIN / 2	1-4, 5-8
T1038NL	1CT:1CT & 1CT:1.36CT	1.20 & 1.20	15 & 15	1.00 & 1.00	0.90 & 1.20	ZIN /1	1-3, 6-8

Mechanical

Schematics

ZIN



Weight8.1 grams
 Tube 20/tube
 Tray 250/tray

Dimensions: $\frac{\text{Inches}}{\text{mm}}$
 Unless otherwise specified, all tolerances are $\pm \frac{.010}{0.26}$

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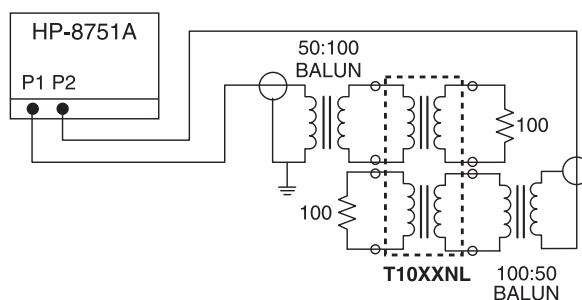
Application Notes

1. Safety Standards Recognition

All transformers listed on this data sheet are UL1459, UL1950, CS950 approved per Underwriters Laboratories – file E133523, Reinforced Insulation.

2. Crosstalk Attenuation

The dual packages 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 55 dB or better from 100 kHz to 10 MHz. This result was established with the test circuit shown here:



3. Common Mode Chokes

The "high-frequency" 4-line common mode chokes, in the chart below, 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. Crosstalk is typically – 70 dB at 1 MHz and – 55 dB at 10 MHz.

High Frequency Common Mode Chokes for Telecom Applications (4-Lines)

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

Pulse Part Number	Turns Ratio (±5%)	OCL (μH MIN)	Cw/w (pF MAX)	L _L (μH MAX)	DCR (Ω MAX)	Isolation (Vrms MIN)	Package
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: Additional common mode chokes to improve EMI performance are available. See the "Common Mode Choke Catalog," for mechanicals and schematics on the data sheet menu on the pulse web site: <http://www.pulseeng.com/index.php?848>, under "Pulse Catalog and General Catalogs."

For More Information:

Pulse Worldwide Headquarters

12220 World Trade Dr.
 San Diego, CA 92128
 U.S.A.

www.pulseeng.com

Tel: 858 674 8100
 Fax: 858 674 8262

Pulse Europe

Einsteinstrasse 1
 D-71083 Herrenberg
 Germany

Tel: 49 7032 7806 0
 Fax: 49 7032 7806 135

Pulse China Headquarters

B402, Shenzhen Academy of
 Aerospace Technology Bldg.
 10th Kejian Rd.
 High-Tech Zone
 Nanshan District
 Shenzhen, PR China 518057

TEL: 86 755 33966678
 FAX: 86 755 33966700

Pulse North China

Room 1503
 XinYin Building
 No. 888 YiShan Rd.
 Shanghai 200233
 China

Tel: 86 21 54643211/2
 Fax: 86 21 54643210

Pulse South Asia

135 Joo Seng Rd.
 #03-02
 PM Industrial Bldg.
 Singapore 368363

TEL: 65 6287 8998
 FAX: 65 6280 0080

Pulse North Asia

No. 26, Kao Ching Rd.
 Yang Mei Chen
 Taoyuan Hsien
 Taiwan
 R. O. C.

Tel: 886 3 4643715
 Fax: 886 3 4641911

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