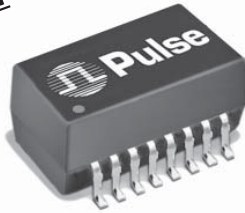


T1/CEPT/ISDN-PRI TRANSFORMERS

Dual Surface Mount, 1500 Vrms, Small Package



- RoHS peak reflow temperature rating 245°C
- Single port T1/E1 solution
- Configurable for TP and Coax cable termination
- Transfer-molded, IC-grade packaging
- UL1950 approved to basic isolation

Electrical Specifications @ 25°C

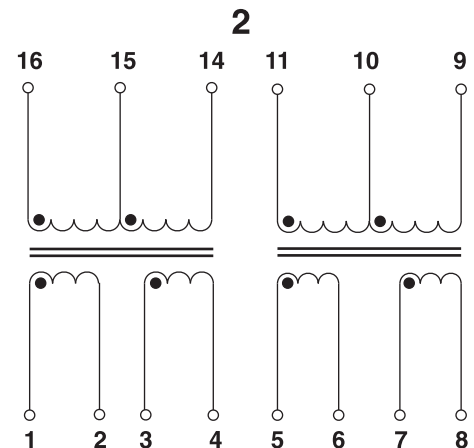
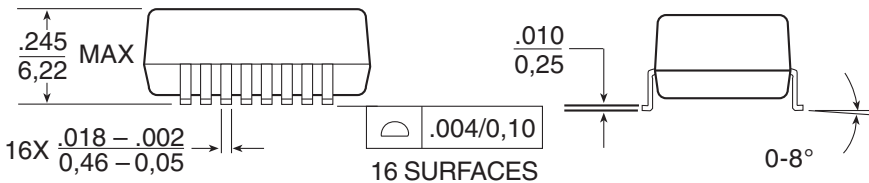
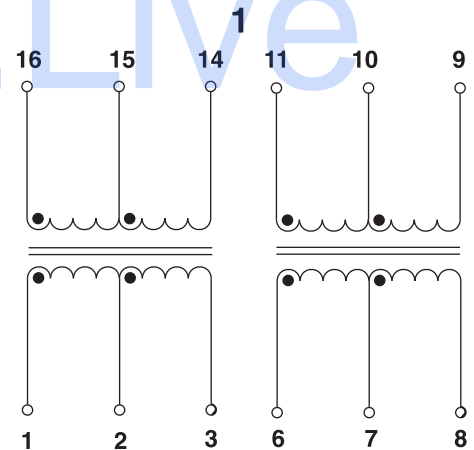
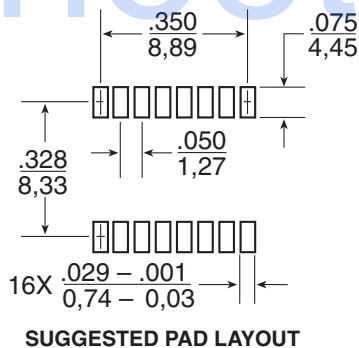
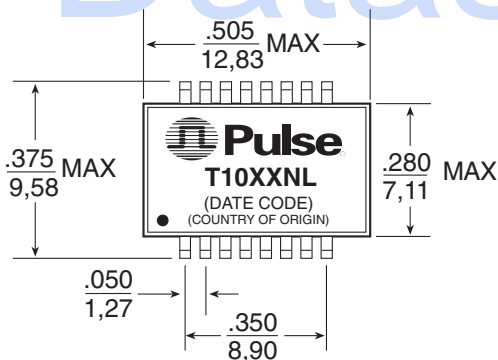
RoHS-6 Compliant Part Number	Turns Ratio ¹ (Pri:Sec ± 2%)	OCL (mH MIN)	L (μH MAX)	Cw/w (pF MAX)	DCR Pri (W MAX)	DCR Sec (W MAX)	Package/ Schematic	Primary Pins
T1021NL	2CT : 1/1.26 & 2CT : 1/1.26	1.5 & 1.5	0.50 & 0.50	40 & 40	0.70 & 0.70	1.00 & 1.00	BH/1	1-3, 11-9
T1075NL	2CS : 1.57/2 & 2CS : 1.57/2	1.5 & 1.5	0.50 & 0.50	40 & 40	0.70 & 0.70	1.00 & 1.00	BH/2	1-2, 5-6

NOTE: Optional Tape & Reel packaging can be ordered by adding a "T" suffix to the part number (such as T1021NLT)

Mechanical

Schematics

BH



Weight 1.0 grams
 Tape & Reel 600/reel
 Tube40/tube

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

Unless otherwise specified, all tolerances are $\pm \frac{.010}{0,25}$

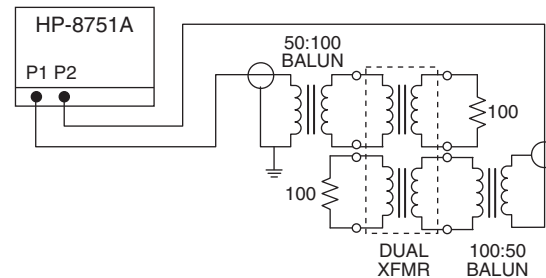
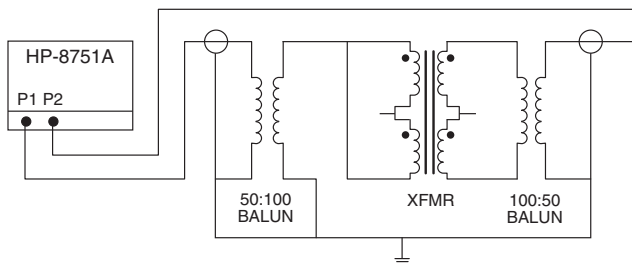
T1/CEPT/ISDN-PRI TRANSFORMERS

Dual Surface Mount, 1500 Vrms, Small Package



IC Mfr.	IC Part Number	Comments	Standard Temp. TX / RX
Brooktree	UGA 510-1 R8069, R8069A, R8069B	—	T1021NL
VLS	VP14Q575 VP14Q575	E1 75 E1 120	T1021NL
Siemens	PEB 2235, PEB 2235A1, PEB 2235B1 PEB 2235, PEB 2235A1, PEB 2235B1 PEB 2235, PEB 2235A1, PEB 2235B1	T1 CEPT 75 CEPT 120	T1075NL

- Turns Ratio** – 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 120 Ω with the same transformer). For example T1075NL can be used with the Siemens PEB 2235 to achieve connection to the 75 or 120 Ω 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. Similarly, for 120 Ω, the following turns ratio are required: 1:2 (Tx) and 1:1 (Rx), which are pins (1-2):(16-14) for Tx and (5-8):(11-9) for Rx on the T1075NL.
- 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.



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)	C _{w/w} (pFH MAX)	L _L (μH MAX)	DCR (Ω MAX)	Isolation (Vrms MIN)	Package
PE-6554NL	1 : 1 : 1 : 1	24.0	15	0.20	0.30	500	Through Hole
PE-6555NL	1 : 1 : 1 : 1	8.0	10	0.20	0.25	500	Through Hole
PE-6584NL	1 : 1 : 1 : 1	47.0	16	0.20	0.30	500	Surface Mount
PE-6585NL	1 : 1 : 1 : 1	24.0	15	0.23	0.30	500	Surface Mount

NOTE: Additional common mode chokes to improve EMI performance are available. See data sheet G002 for mechanicals and schematics of common mode chokes.

For More Information:

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

Pulse Europe
Einsteinstrasse 1
D-71083 Herrenberg
Germany

Pulse China Headquarters
B402, Shenzhen Academy of
Aerospace Technology Bldg.
10th Kejinan Rd.
High-Tech Zone
Nanshan District
Shenzhen, PR China 518057
Tel: 86 755 33966678
Fax: 86 755 33966700

Pulse North China
Room 2704/2705
Super Ocean Finance Ctr.
2067 Yan An Rd. West
Shanghai 200336
China
Tel: 86 21 62787060
Fax: 86 2162786973

Pulse South Asia
135 Joo Seng Rd.
#03-02
PM Industrial Bldg.
Singapore 368363
Tel: 65 6287 8998
Fax: 65 6287 8998

Pulse North Asia
3F, No. 198
Zhongyuan Rd.
Zhongli City
Taoyuan County 320
Taiwan R. O. C.
Tel: 886 3 4356768
Fax: FRE 886 3 43568 20
Pulse: 886 3 4356823

www.pulseeng.com
Tel: 858 674 8100
Fax: 858 674 8262

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

Performance warranty of products offered on this data sheet is limited to the parameters specified. Data is subject to change without notice. Other brand and product names mentioned herein may be trademarks or registered trademarks of their respective owners.

© Copyright, 2009. Pulse Engineering, Inc. All rights reserved.

Looking for pricing, stock, or lifecycle information?

Click below to explore more details on WIN SOURCE:

 [View T1021NLT on WIN SOURCE](#)

 [Pulse Information](#)

Optimize Your Supply Chain with WIN SOURCE Solutions

-  Global Sourcing Solution
-  Obsolete Management
-  Cost Control Management
-  Shortage Management
-  Alternative Solution
-  Excess Inventory Management