

Chipsmall Limited consists of a professional team with an average of over 10 year of expertise in the distribution of electronic components. Based in Hongkong, we have already established firm and mutual-benefit business relationships with customers from, Europe, America and south Asia, supplying obsolete and hard-to-find components to meet their specific needs.

With the principle of "Quality Parts, Customers Priority, Honest Operation, and Considerate Service", our business mainly focus on the distribution of electronic components. Line cards we deal with include Microchip, ALPS, ROHM, Xilinx, Pulse, ON, Everlight and Freescale. Main products comprise IC, Modules, Potentiometer, IC Socket, Relay, Connector. Our parts cover such applications as commercial, industrial, and automotives areas.

We are looking forward to setting up business relationship with you and hope to provide you with the best service and solution. Let us make a better world for our industry!



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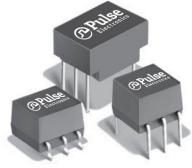




Designed for T3, DS3, E3 and STS-1 Interfaces







- RoHS peak reflow temperature rating: 245°C
- Return loss meets requirements of G.703
- Fast rise time compatible with standards
- Through hole and surface mount packages available
- UL recognized

Electrical Specifications @ 25°C – Operating Temperature 0°C to +70°C									
RoHS Compliant Part Number	Turns Ratio (±2%)	<b>OCL Primary</b> (μΗ MIN)	<b>0CL @ -40°C</b> (µH MIN)	<b>Լլ</b> (µH MAX)	C <sub>W</sub> /w (pF MAX)	Bandwidth 75 System (MHzTYP)	Isolation Voltage (Vrms MIN)	Package/ Schematic	Primary Pins
PE-65664NL	1:2CT	35	20	.12	10	-	1500	QC-1/B THT	2-6
PE-65779NL	1:4CT	150	-	.30	15	-	1500	QC-1/B THT	2-6
PE-65856NL	1:1.73CT	50	-	.10	12	.60-300	1500	LC-1/C THT	4-6
PE-65966NL	1:1	40	-	.10	10	.200-340	1500	LC-1/E THT	4-6
PE-65967NL	1:1	40	-	.10	10	.200-340	1500	LS-1/E SMT	4-6
PE-65968NL	1:2CT	19	-	.06	10	.250-500	1500	LS-1/C SMT	4-6
PE-65969NL	1:2CT	19	-	.06	10	.250-500	1500	LC-1/C THT	4-6
PE-68629NL	1:1	40	-	.10	5	-	3000	HC-1/A THT	1-5

Electrical Specifications @ 25°C									
RoHS Compliant	Turns Ratio	OCL @ 25°C	C <sub>W/W</sub>	ι <sub>ι</sub>	DCR Pri	DCR Sec	Isolation Voltage	Package/	Primary
Part Number	(Pri:Sec ±5%)	(mH MIN)	(mH MIN)	(µH MAX)	$(\Omega MAX)$	$(\Omega MAX)$	(Vrms MIN)	Schematic	Pins
PE-64934NL	1:1	1.20	25	0.50	0.70	0.70	1500	HC-1/1S	1-2

	Packaging Information									
Package	Type	Part Weight	Parts/Tube	Parts/Reel	Reel Diameter	Tape Width	Pitch			
LS-1	SMT	0.6 grams	70	600	13 inches	24mm	16mm			
LC-1	THT	0.6 grams	65	-	-	-	-			
HC-1	THT	1.2 grams	60	-	-	-	-			
QC-1	THT	0.8 grams	60	-	-	-	-			

USA 858 674 8100 Germany 49 7032 7806 0 Singapore 65 6287 8998 Shanghai 86 21 62787060 China 86 755 33966678 Taiwan 886 3 4356768

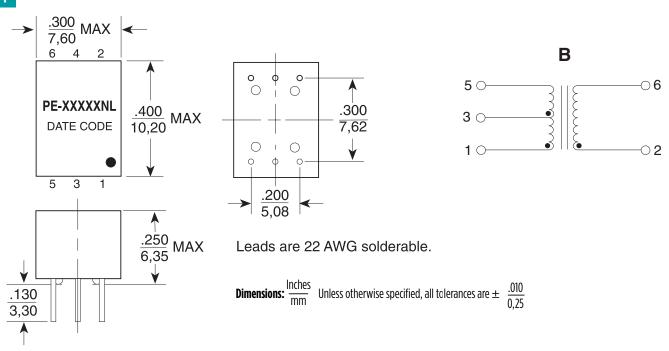
pulseelectronics.com T606.F (04/12)

Designed for T3, DS3, E3 and STS-1 Interfaces

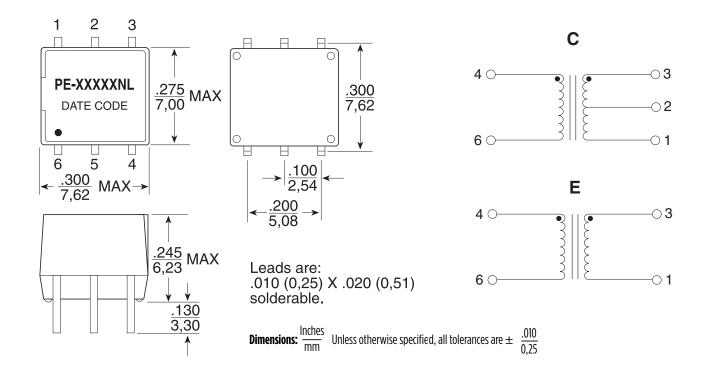


Mechanicals Schematics





LC-1



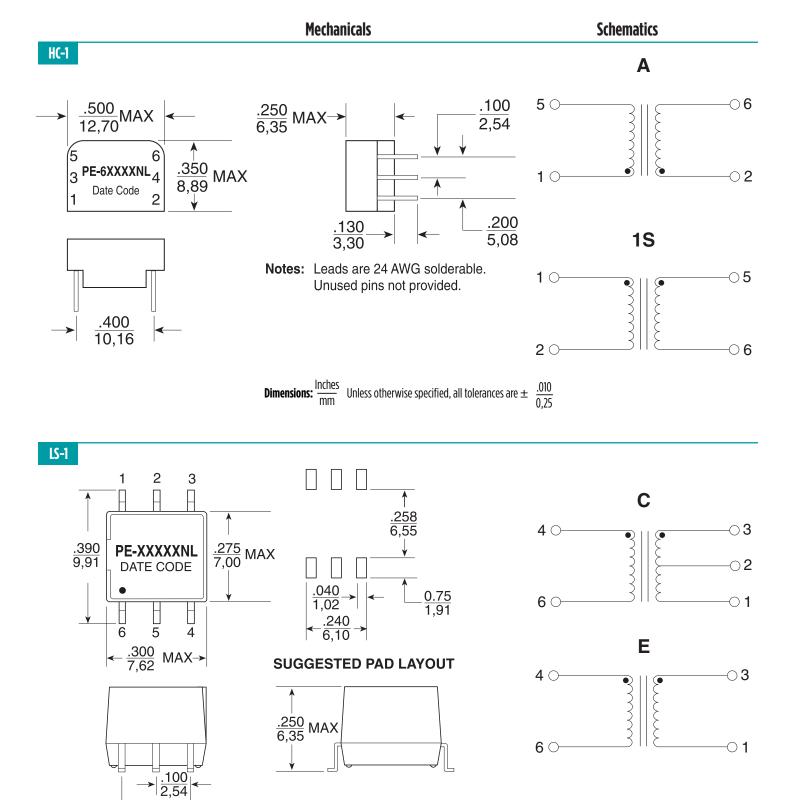
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Designed for T3, DS3, E3 and STS-1 Interfaces

.200 5,08

3





Unless otherwise specified, all tolerances are  $\pm$ 

Designed for T3, DS3, E3 and STS-1 Interfaces

Transformer Selection Guide									
		Surface Mount		Through Ho	<b>le</b> (1500 VRMS)	Through Hole (3000 VRMS)			
Chip Manufacturer	IC	Transmit	Receive	Transmit	Receive	Transmit	Receive		
Lucent	T7296	PE-65967NL	-	PE-65966NL	-	PE-68629NL	-		
Exar	XR-T7296	PE-65967NL	-	PE-65966NL	-	PE-68629NL	-		
	SSI 78P236, DS3	PE-65968NL	PE-65967NL	PE-65969NL	PE-65966NL	-	PE-68629NL		
	SSI 78P7200, DS3	PE-65968NL	PE-65967NL	PE-65969NL	PE-65966NL	-	PE-68629NL		
Silicon Systems	SSI 78P7200, E3	PE-65968NL	PE-65968NL	PE-65969NL	PE-65966NL	-	-		
Systems	SSI 78P2361, STS-1	PE-65968NL	PE-65967NL	PE-65969NL	PE-65966NL	-	PE-68629NL		
	SSI 78P2362, E3	PE-65968NL	PE-65967NL	PE-65969NL	PE-65966NL	-	PE-68629NL		
Transwitch	MRT TXC-02050 E3	PE-65968NL	PE-65967NL	PE-65969NL	PE-65966NL	-	PE-68629NL		
Transwitch	ART 02020 DS3, STS-1	PE-65967NL	PE-65967NL	PE-65966NL	PE-65966NL	PE-68629NL	PE-68629NL		

#### **Application Notes**

- The transformers have been developed for use as transmit and receive transformers in T3 or DS3 links, using bit rates of 44.736 Mbps and B3ZS coding on coaxial cable. The characteristics allow compliance with the Pulse templates of CCITT G.703 as well as ATT T.A.34. The transformers are also suitable for E3 interfac at 34.368 Mbps with HDB3 coding or STS-1 applications, at 51.84 Mbps according to Bellcore TA-NWT-000253. The LC-1 and QC-1 packages are pin compatible with T1-1 and T4-1 6-pin DIP packages.
- 2. Bandwidth specifications are typical in a 75  $\Omega$  system. Return loss meets the requirements of G.703. Materials used in the products are UL94-V0 recognized. Products meet the requirements of IEC 695-2-2 (Needle Flame Test).

- 3. The surface mount LS-1 package is available with optional Tape & Reel packaging. To order, add a "T" suffix to the part number (e.g. PE-65967NLT).
- 4. The Transwitch MRT TXC-02050 chip is also designed to operate in 6.312 and 8.448 Mbps interfaces. A 1:1 transformer (PE-64934) is recommended.

T606.F (04/12)

#### For More Information

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