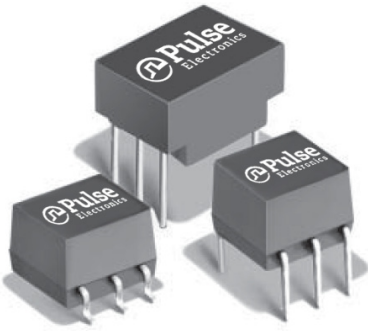


# T3/DS3/E3/STS-1 TRANSFORMERS

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%)	OCL Primary (μH MIN)	OCL @ -40°C (μH MIN)	L <sub>L</sub> (μH MAX)	C <sub>w/w</sub> (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 Part Number	Turns Ratio (Pri:Sec ±5%)	OCL @ 25°C (mH MIN)	C <sub>w/w</sub> (mH MIN)	L <sub>L</sub> (μH MAX)	DCR Pri (Ω MAX)	DCR Sec (Ω MAX)	Isolation Voltage (Vrms MIN)	Package/Schematic	Primary Pins
PE-64934NL	1:1	1.20	25	0.50	0.70	0.70	1500	HC-1/IS	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

# T3/DS3/E3/STS-1 TRANSFORMERS

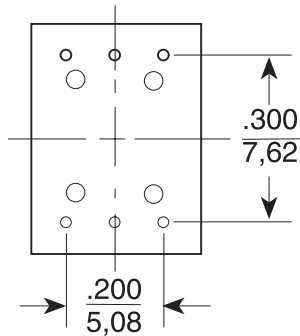
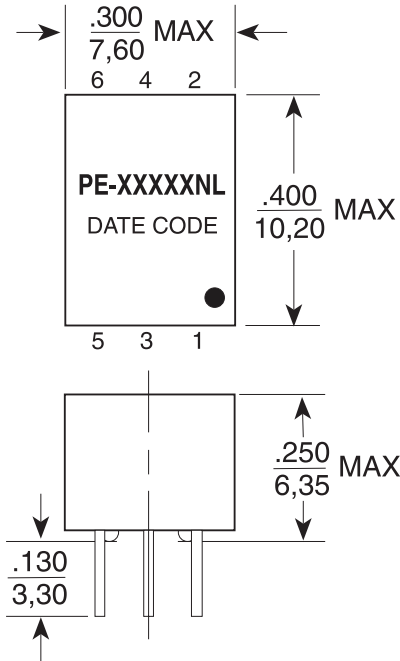
Designed for T3, DS3, E3 and STS-1 Interfaces



## Mechanicals

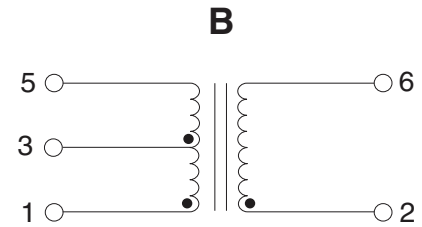
## Schematics

QC-1

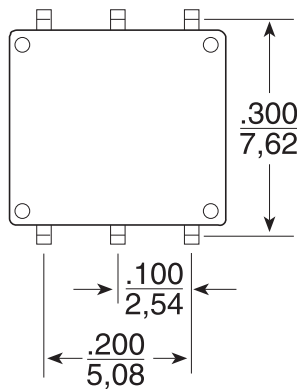
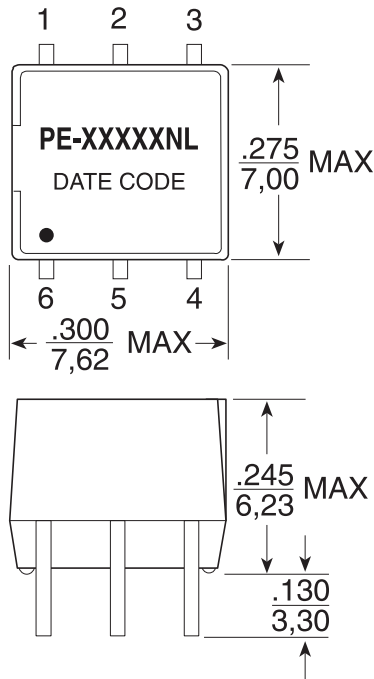


Leads are 22 AWG solderable.

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

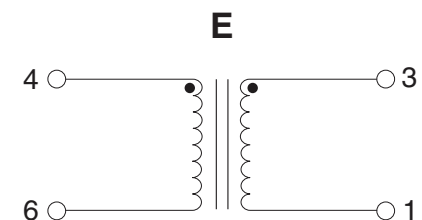
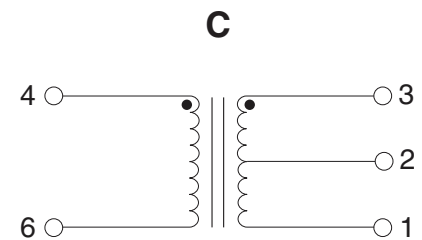


LC-1



Leads are:  $.010$  (0,25) X  $.020$  (0,51) solderable.

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



# T3/DS3/E3/STS-1 TRANSFORMERS

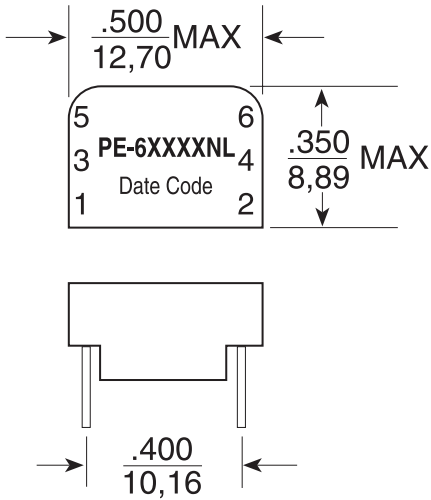
Designed for T3, DS3, E3 and STS-1 Interfaces



## Mechanicals

## Schematics

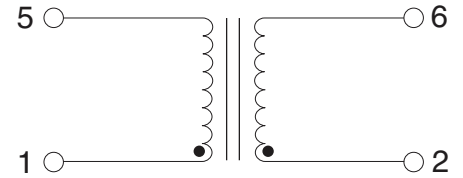
### HC-1



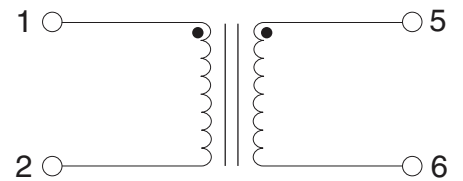
**Notes:** Leads are 24 AWG solderable.  
 Unused pins not provided.

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

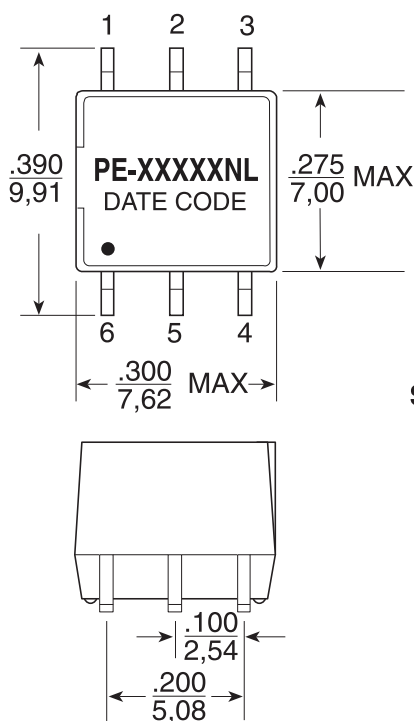
### A



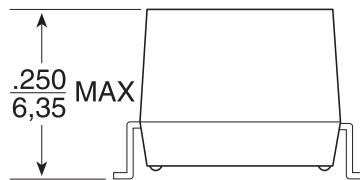
### 1S



### LS-1

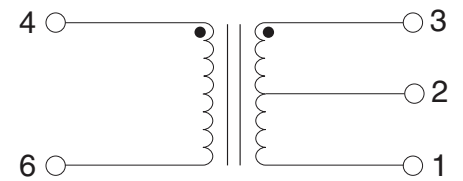


### SUGGESTED PAD LAYOUT



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

### C



### E

