

ISOLATION TRANSFORMERS FOR 10BASE-T APPLICATIONS

For Adapter Cards, Hubs and Motherboards



-  Designed to meet or exceed IEEE802.3, 10Base-T specifications
-  Peak solder reflow Temperature rating per Table 5-2 defined in IPC/JEDEC J-STD-020C
-  Available with Common Mode Choke options for EMI suppression

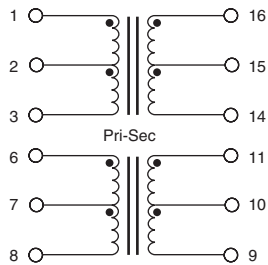
Electrical Specifications @ 25°C — Operating Temperature 0°C to 70°C

Part Number ^{1, 2}	Turns Ratio		Primary Pins TX/RX	Common Mode Choke	Inductance Primary (μH)	Interwinding Capacitance (pfMAX)	Leakage Inductance (μH MAX)	Winding Resistance (MAX)	Vrms
	Transmit	Receive							
E2452NL	1CT:1CT	1CT:1CT	1-3/6-8	None	140/140	12	0.3	0.3	1500
E2454NL	1CT:2CT	1CT:1CT	1-3/6-8	TX only	50/200	12	0.3	1.0	1500
E2457NL	1CT:1.41CT	1CT:1CT	6-8/1-3	None	140/140	12	0.2	0.3	1500
E2458NL	1CT:1.41CT	1CT:1CT	6-8/1-3	Shared	160/160	12	0.4	0.3	1500
E2466NL	1CT:2CT	1CT:1CT	6-8/1-3	None	20/100	12	0.3	0.6	1500
E2467NL	1CT:2CT	1CT:1CT	6-8/1-3	Shared	20/100	12	0.3	0.6	1500

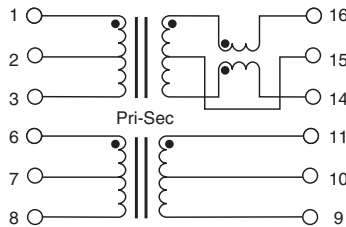
- All above parts Moisture Sensitivity Level (MSL) = 1
- All parts are supplied in Tubes but Tape & Reel options can be requested by adding "T" to the end of the part code, eg. E2457NLT will be the Tape & Reel version of E2457NL.

Schematics

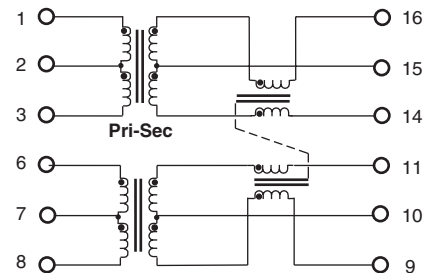
E24XXNL



Part without Choke



Part with TX Choke



Part including Shared Choke

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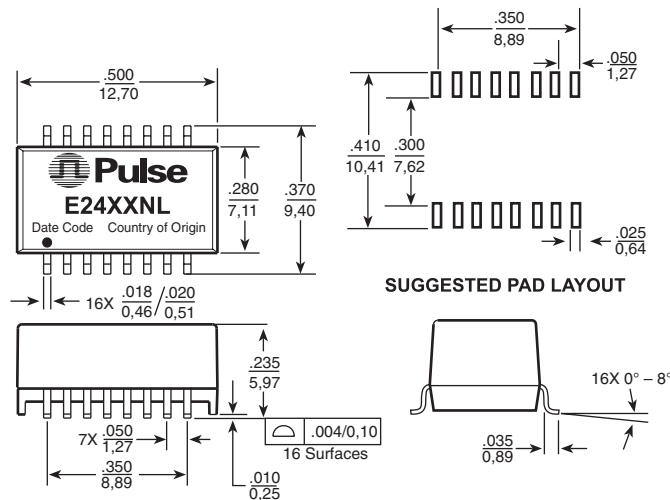
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Pulse
A TECHNITROL COMPANY

Mechanical

E24XXNL



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

Unless otherwise specified
all tolerances are $\pm \frac{.010}{0.25}$

Weight0.85 grams
Tape & Reel40/reel
Tube600/tube

Cross Reference to Old Pulse Products

New RoHS Part Number	Replaces Old Part Number
E2452NL	23Z114SMNL PE-65726NL
E2454NL	PE-68023NL ST4160TNL
E2457NL	23Z128SMNL PE-65745NL ST7011NL & ST7011TNL
E2458NL	23Z356SMNL PE-68048NL ST7010NL & ST7010TNL
E2466NL	23Z466SMNL PE-68041NL
E2467NL	23Z467SMNL E4001NL ST4202NL & ST4202TNL

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