

Features

- Compliant with IEEE 802.3 standards
- Designed for 10/100/1000 Base-T full duplex
- Supports four pairs of Category 5 UTP/6 UTP cables
- Extended operating temperature range
- RoHS compliant*

Applications

- Ethernet

PT61022XL 10/100/1000 Base-T Transformer

Electrical Specifications @ 25 °C

Turns Ratio (±5 %)	1CT*:1CT*
Inductance	350 μH min. @ 100 KHz, 0.1 Vrms, 8 mA DC Bias
Leakage Inductance	0.5 μH max. @ 100 KHz, 0.1 Vrms
C _{ww}	25 pF typ. @ 100 KHz, 0.1 Vrms
DCR	0.9 Ω max.
Insertion Loss	
0.3-100 MHz	-1.1 dB max.
Return Loss	
0.3-30 MHz	-18 dB min.
30-60 MHz	-14 dB min.
60-80 MHz	-12 dB min.
80-100 MHz	-10 dB min.
Common Mode Rejection	
0.3-60 MHz	-35 dB Min.
60-100 MHz	-30 dB Min.
Crosstalk	
0.3-60 MHz	-35 dB Min.
60-100 MHz	-28 dB Min.
Hipot	
1 mA, 60 sec.	1500 Vrms
Operating Temperature	-40 °C to +85 °C
Storage Temperature	-40 °C to +125 °C

*CT: Center tap

Material

Terminal Finish Tin

Packaging Specifications

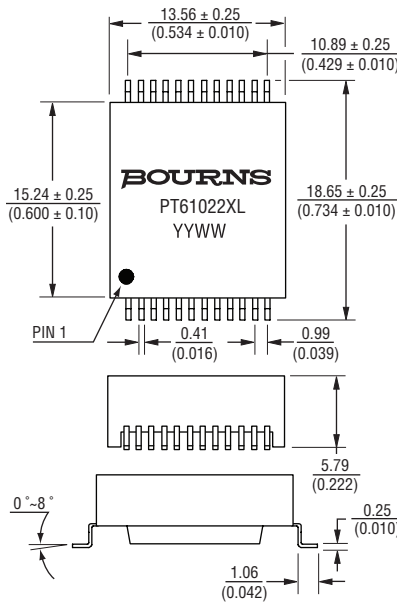
Tape & Reel 500 pcs./reel

How To Order

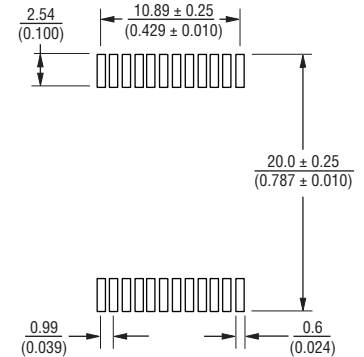
PT61022 X E L

Model	_____
Type	_____
X = Extended Temperature Range	
Packaging	_____
E = Tape and Reel (500 pcs./reel)	
Termination	_____
L = Tin only (RoHS Compliant)	

Product Dimensions



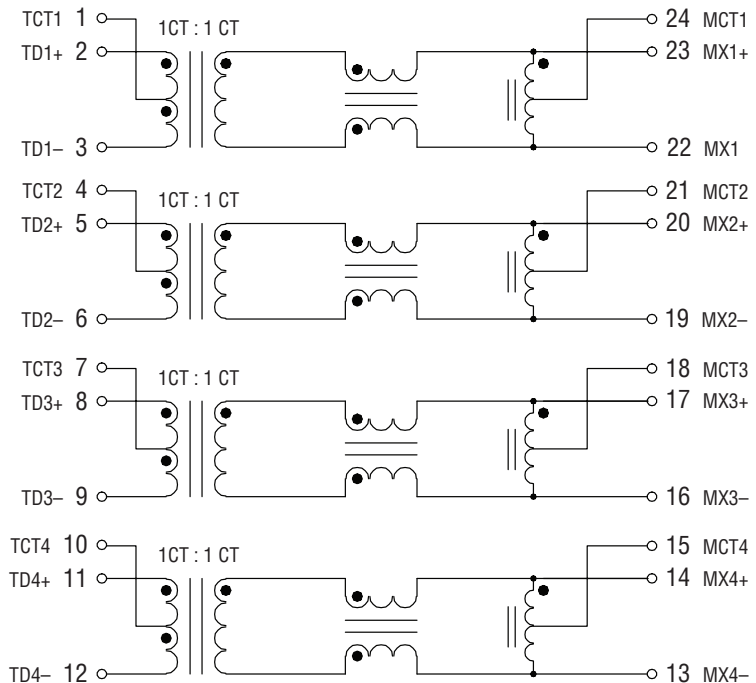
Recommended Layout



DIMENSIONS: $\frac{\text{MM}}{\text{(INCHES)}}$

TOLERANCES: $\frac{0.05}{(0.002)}$ UNLESS OTHERWISE NOTED

Electrical Schematic



WARNING Cancer and Reproductive Harm - www.P65Warnings.ca.gov

*RoHS Directive 2002/95/EC Jan. 27, 2003 including annex and RoHS Recast 2011/65/EU June 8, 2011. Specifications are subject to change without notice.

Users should verify actual device performance in their specific applications.

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