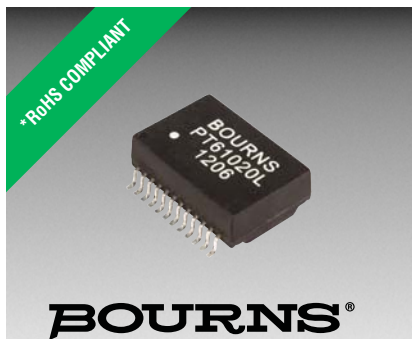




Features

- Compliant with IEEE802.3ab Draft Standards for 1000 Base-T
- Designed for Long Haul Gigabit Ethernet 10/100/1000 Base-T Full Duplex applications
- Low profile surface mount packaging designed for reflow process (245 ° peak)
- Supports 4 pairs of Category 5 UTP cables

- RoHS compliant*

Applications

- LAN
- Ethernet

PT61020L LAN 10/100/1000 Base-T Transformer Modules

Electrical Specifications @ 25 °C

Inductance.....	350 μ H min.
with 8 mA DC bias @ 100 KHz, 0.2 V	
Leakage Inductance.....	0.50 μ H max.
@ 100 KHz, 0.2 V	
Interwinding Capacitance.....	25 pF typ.
@ 100 KHz, 0.2 V	
DC Resistance	0.90 Ω max.
Insertion Loss	0.3-100 MHz
	-1.1 dB max.
Return Loss (dB min.)	
0.3-30 MHz	-18
40 MHz.....	-14.4
50 MHz.....	-13.1
60-80 MHz	-12
Cross Talk (dB min.)	
0.3-30 MHz	-35
60-100 MHz	-28
Common Mode Rejection (dB min.)	
0.3-30 MHz	-40
60 MHz.....	-35
80-100 MHz	-30
Turns Ratio	1 CT:1 $\pm$ 5 %
PoE Current	
..... Up to 640 mA for 1000 Base-T	
Isolation Hi-Pot....	1500 VAC 1 mA 1 sec.
Operating Temperature	
.....	-40° C to +85 °C

PT61020EL is extended temperature version of PT61024L.

Packaging Specifications

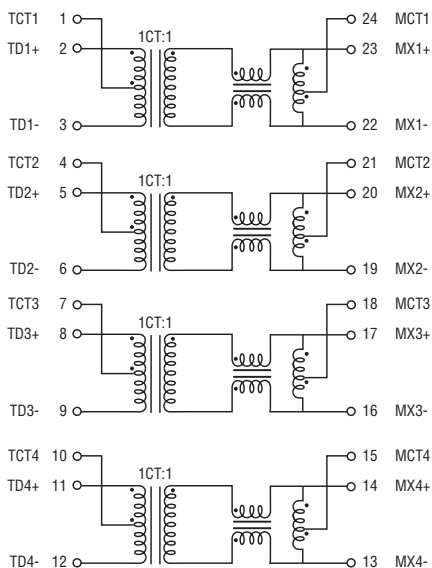
Tape & Reel..... 400 pcs./reel

How To Order

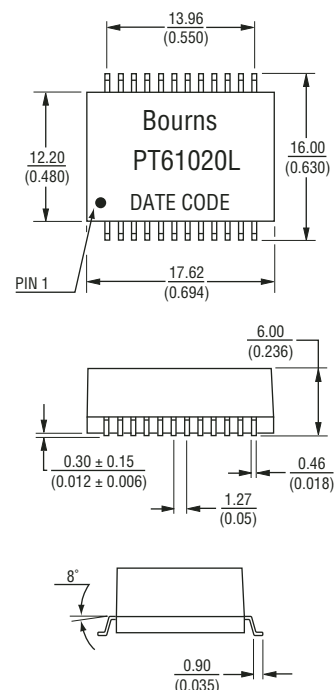
PT61020E L

Model _____
Termination _____
L = Tin only (RoHS Compliant)

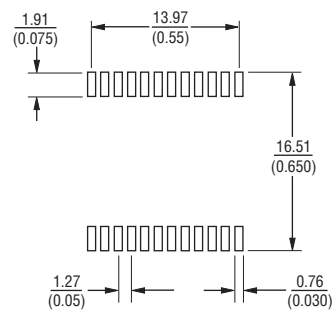
Electrical Schematic



Product Dimensions



Recommended Layout



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

TOLERANCES: $\pm \frac{0.25}{(.010)}$

Mouser Electronics

Authorized Distributor

Click to View Pricing, Inventory, Delivery & Lifecycle Information:

Bourns:

[PT61020L](#) [PT61020EL](#)