

#### **Features**

- IEEE 802.3 Ethernet compatible
- Dual channel 16-pin SMD
- Wide operating temperature range: -40 to +85 °C
- RoHS compliant\*

### **Applications**

■ Ethernet

# PT61018PEL - LAN 10/100 Base-Tx

#### Electrical Specifications @ 25 °C

Electrical opecinications © 20 °C
Inductance - OCL
350 µH min. @ 100 KHz, 0.1 Vrms, 8 mA DC Bias
Turns Ratio (± 5%)1CT*:1CT*
DCR 1.2 $\Omega$ max.
Insertion Loss
1-100 MHz1.15 dB max.
Return Loss
1-30 MHz18 dB min. 30-60 MHz13 dB min.
60-80 MHz12 dB min.
Common Mode Rejection
1-60 MHz37 dB Min.
60-100 MHz28 dB Min.
Crosstalk
1-60 MHz40 dB Min. 60-100 MHz35 dB Min.
Hipot
@1 mA, 2 sec 1.5K Vrms
Operating Temperature40 to +85 °C
Storage Temperature40 to +85 °C

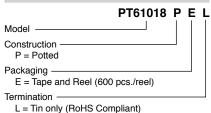
#### \*CT: Center tap

Material	
Termination	Tin

#### **Packaging Specifications**

Tape & Reel...... 600 pcs./reel

#### **How To Order**



### BOURNS

#### Asia-Pacific:

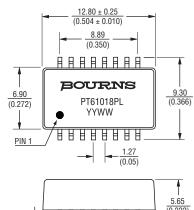
Tel: +886-2 2562-4117 Fax: +886-2 2562-4116

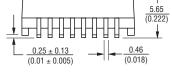
EMEA:

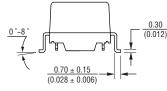
Tel: +36 88 520 390 Fax: +36 88 520 211 **The Americas:** Tel: +1-951 781-5500

Tel: +1-951 781-5500 Fax: +1-951 781-5700 www.bourns.com

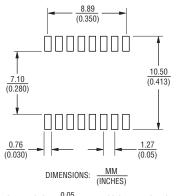
## **Product Dimensions**





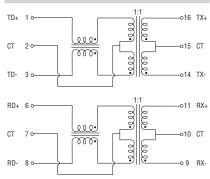


#### **Recommended Layout**

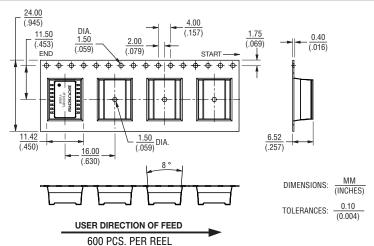


TOLERANCES:  $\frac{0.05}{(0.002)}$  UNLESS OTHERWISE NOTED

#### **Electrical Schematic**



### **Packaging Specifications**





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. The products described herein and this document are subject to specific legal disclaimers as set forth on the last page of this document, and at <a href="https://www.bourns.com/docs/legal/disclaimer.pdf">www.bourns.com/docs/legal/disclaimer.pdf</a>

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