

### Features

- IEEE 802.3 Ethernet compatible
- Compatible with 1G/2.5G/5G BASE-T
- PoE+
- Expanded temperature range: -40 to +85 °C
- RoHS compliant\* and halogen free\*\*

### Electrical Specifications @ 25 °C

#### Inductance

230 µH min.	@ 100 kHz, 0.1 V
Insertion Loss (TD-MX	)
1-100 MHz	1.0 dB max.
100-250 MHz	2.0 dB max.
Return Loss (TD-MX)	
1-40 MHz	16 dB min.
40 ≤ f ≤ 250 MHz	

$1 \le 1 \le 250$ IVIHZ	35	αв	min.
DCMR (TD-MX)			
1-50 MHz	30	dB	min.
50-150 MHz	20	dB	min.
150 250 MU-	15	dB	min

### Packaging Specifications

Tape & Reel...... 800 pcs./reel

### **Pin Layout**

### How To Order

5	SM42P01	Е	L
Model			
Packaging — E = Tape and Reel (800 pcs.	. per reel)		
Termination —			

L = Tin (RoHS Compliant)

# WARNING Cancer and Reproductive Harm

- \* RoHS Directive 2015/863, Mar 31, 2015 and Annex.
- \*\* Bourns considers a product to be "halogen free" if (a) the Bromine (Br) content is 900 ppm or less; (b) the Chlorine (Cl) content is 900 ppm or less; and (c) the total Bromine (Br) and Chlorine (Cl) content is 1500 ppm or less.

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# SM42P01EL - 1 / 2.5 / 5 GbE Chip LAN Transformer Module

### Additional Information

**Product Dimensions** 

16.0 (.630)

t

6.75

4.75

(.187)

<u>0.4</u> (.016)

Click these links for more information:



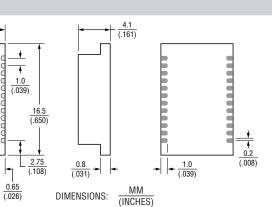
 $\frac{10.3}{(.406)}$ 

9 65

(.380)

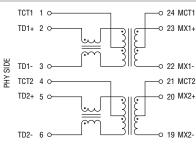


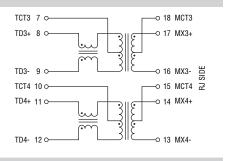




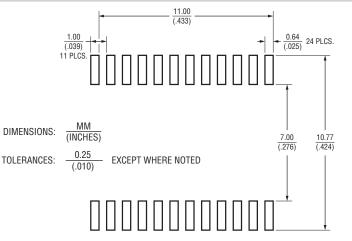
### **Electrical Schematic**

 $\frac{3.75}{(.148)}$ 



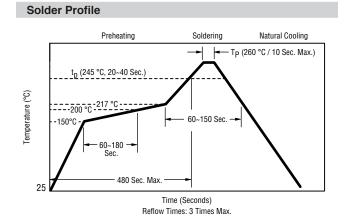


### **Recommended Layout**

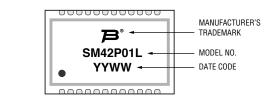


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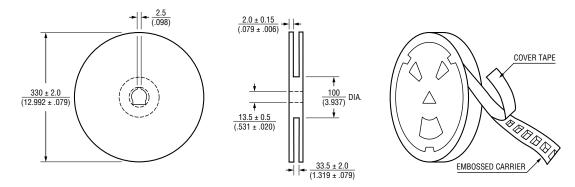
BOURNS

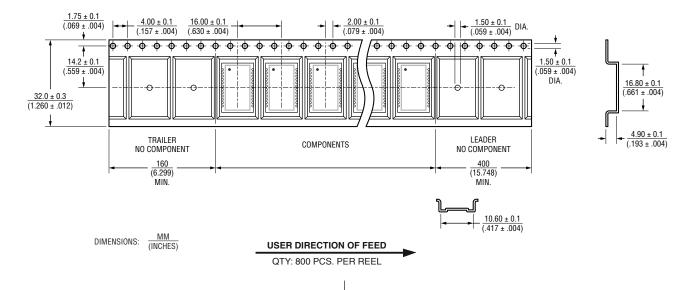


**Typical Part Marking** 



**Packaging Specifications** 





01/21

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