

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	

10 31 3 200 101	12			
	(16-10	log	(f/40))	min.
Cross Talk				

1 ≤ f ≤ 250 MHz	-35	dB	min.
DCMR (TD-MX)			
1-50 MHz	-30	dB	min.
50-150 MHz	-20	dB	min.
	45	dD	min

150-250 MHz	15 dB min.
Hi-Pot	1500 Vac, 60 s
PoE+ Current	600 mA
Operating Temperature	40 °C to +85 °C
Storage Temperature	40 °C to +85 °C

Packaging Specifications

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

Pin Layout

PIN 1 DOT C 24 MCT1 1 TCT1 23 MX1+ 23 MX1+ 2 TD1+ 22 MX1- 22 MX1- 3 TD1- 22 MX1- 22 MX1- 4 TCT2 21 MCT2 21 MCT2 5 TD2+ 2 19 MX2- 7 TCT3 2 18 MCT3 8 TD3+ 2 16 MX3- 10 TCT4 2 15 MCT4 11 TD4+ 2 13 MX4-	
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How To Order

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

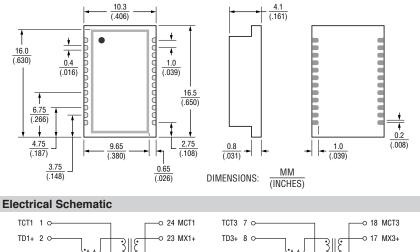
Click these links for more information:

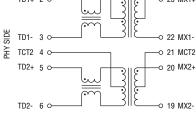


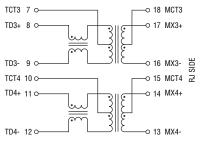




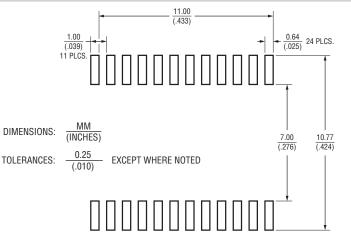
Product Dimensions





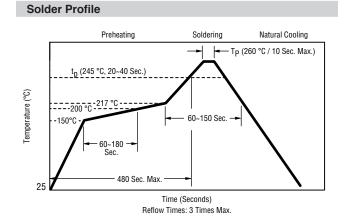


Recommended Layout

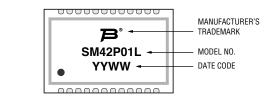


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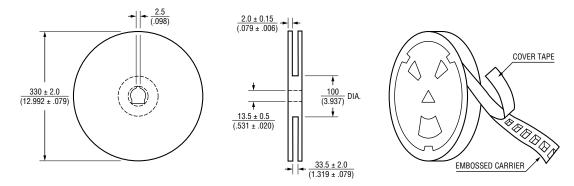
BOURNS

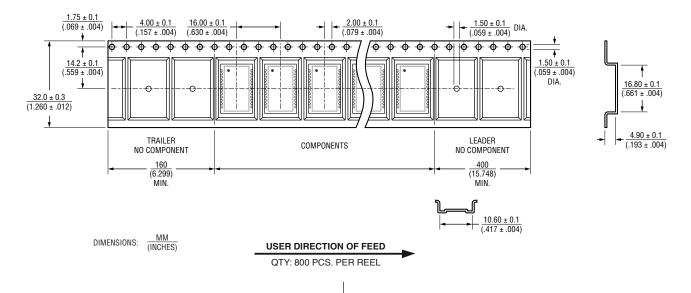


Typical Part Marking



Packaging Specifications





01/21

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