



## Features

- IEEE 802.3 Ethernet compatible
- 10 GbE
- PoE+
- RoHS compliant\* and halogen free\*\*

## SM43P01EL - 10 GbE Chip LAN Transformer Module

### Electrical Specifications @ 25 °C

#### Inductance

..... 120  $\mu$ H min. @ 100 kHz, 0.1 V

#### Insertion Loss (TD-MX)

1-500 MHz..... -3.0 dB max.

#### Return Loss (TD-MX)

1-40 MHz..... -16 dB min.

40  $\leq$  f  $\leq$  500 MHz

..... -(16-10 log (f/40)) min.

#### Cross Talk

1-500 MHz..... -30 dB min.

#### DCMR (TD-MX)

1-250 MHz..... -22 dB min.

250-550 MHz..... -18 dB min.

Hi-Pot..... 1500 Vac, 60 s

PoE+ Current..... 600 mA

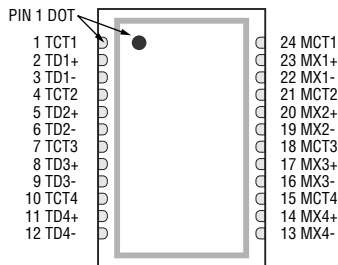
Operating Temperature.... 0 °C to +85 °C

Storage Temperature.... -25 °C to +85 °C

### Packaging Specifications

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

### Pin Layout



### How To Order

**SM43P01 E L**

Model \_\_\_\_\_  
 Packaging \_\_\_\_\_  
 E = Tape and Reel (800 pcs. per reel)  
 Termination \_\_\_\_\_  
 L = Tin (RoHS Compliant)



**WARNING Cancer and Reproductive Harm**  
[www.P65Warnings.ca.gov](http://www.P65Warnings.ca.gov)

\* 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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### Additional Information

Click these links for more information:



[PRODUCT](#)



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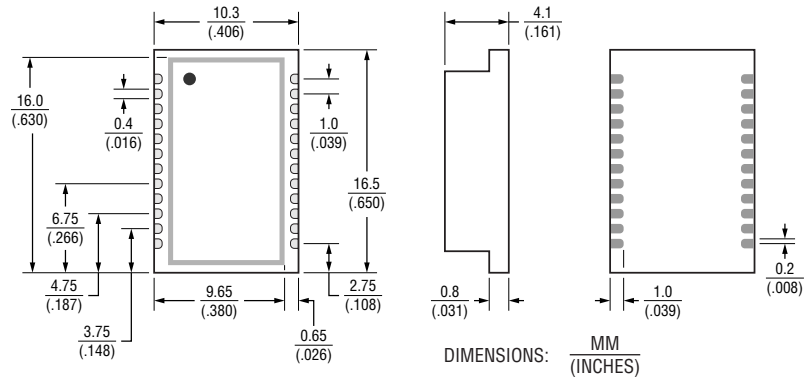


[INVENTORY](#)

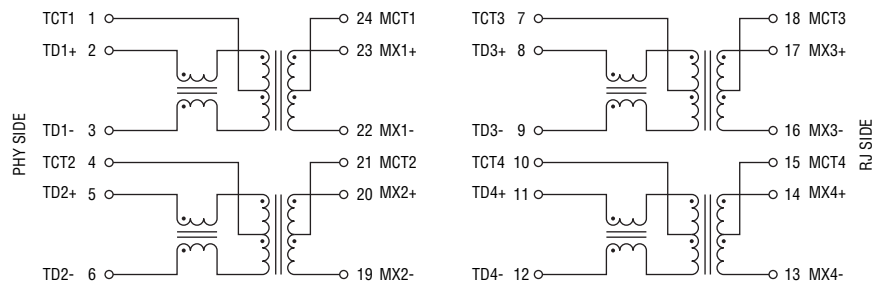


[SAMPLES](#)

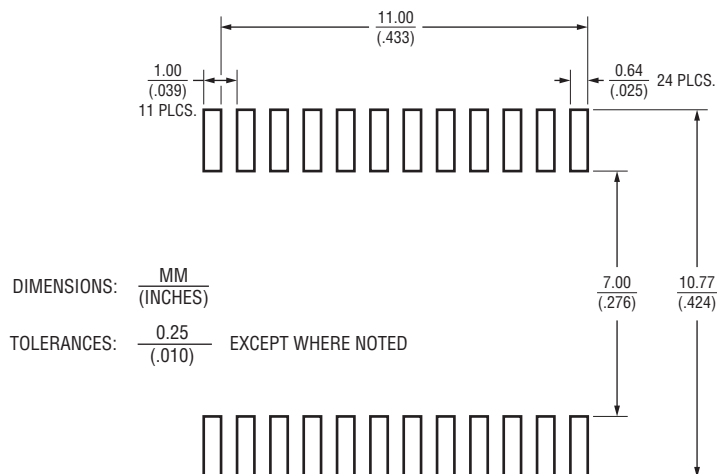
### Product Dimensions



### Electrical Schematic



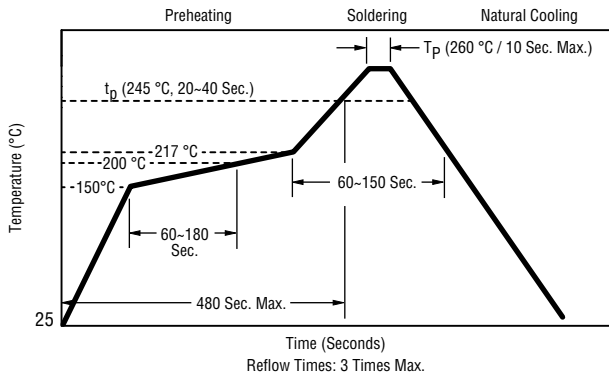
### Recommended Layout



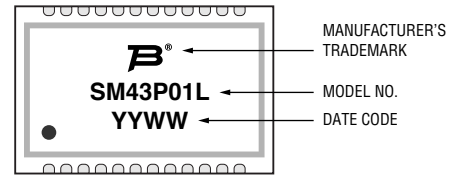
# SM43P01EL - 10 GbE Chip LAN Transformer Module

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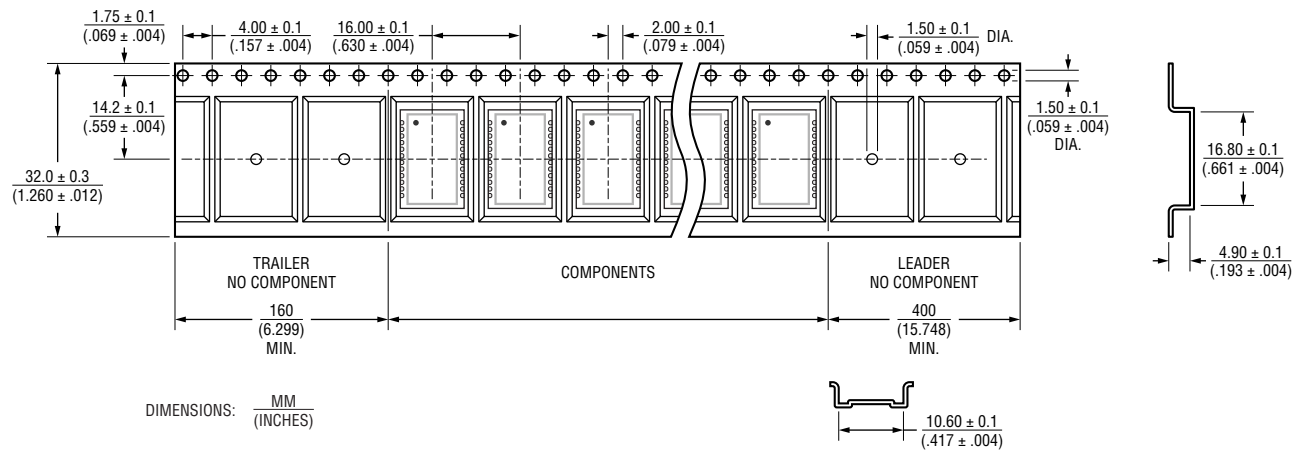
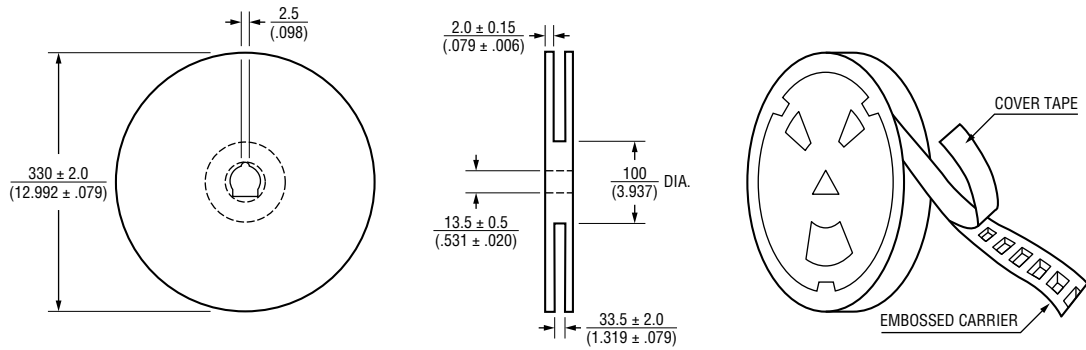
## Solder Profile



## Typical Part Marking



## Packaging Specifications



USER DIRECTION OF FEED →

QTY: 800 PCS. PER REEL

01/21

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