

## Features

- IEEE 802.3 Ethernet compatible
- 2.5 GbE
- RoHS compliant\* and halogen free\*\*

## SM42002EL - 2.5 GbE Chip LAN Transformer Module

### Electrical Specifications @ 25 °C

#### Inductance

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

#### Insertion Loss (TD-MX)

1-50 MHz..... -0.5 dB max.

50-125 MHz..... -1.0 dB max.

#### Return Loss (TD-MX)

1-125 MHz..... -15 dB min.

#### NEXT

1-40 MHz..... -35 dB min.

40-125 MHz..... -35+15log<sub>10</sub>(f/40) min.

#### FEXT

1-100 MHz..... 43-20log<sub>10</sub>(f/100) min.

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

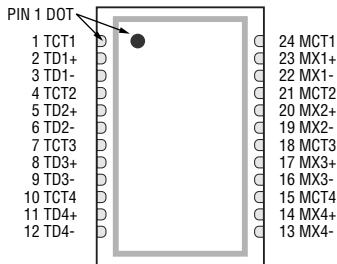
Operating Temperature..... 0 °C to +85 °C

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

### Packaging Specifications

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

### Pin Layout



### How To Order

**SM42002 E L**

Model \_\_\_\_\_  
 Packaging \_\_\_\_\_  
 E = Tape and Reel (400 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



TECHNICAL LIBRARY



INVENTORY

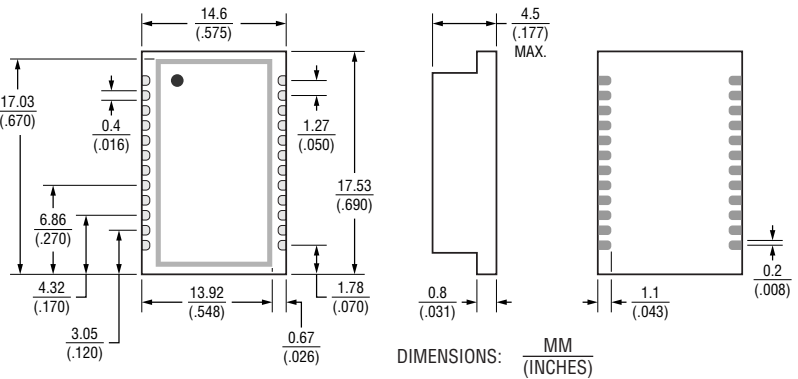


SAMPLES

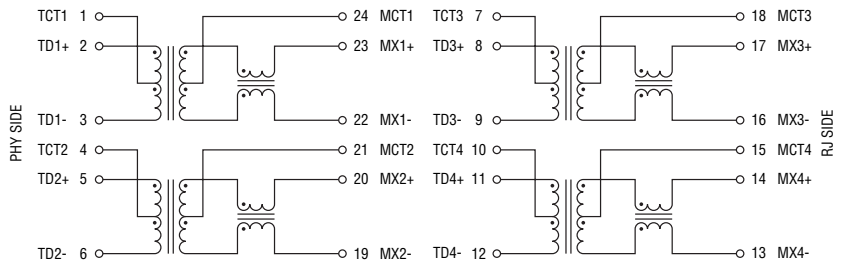


CONTACT

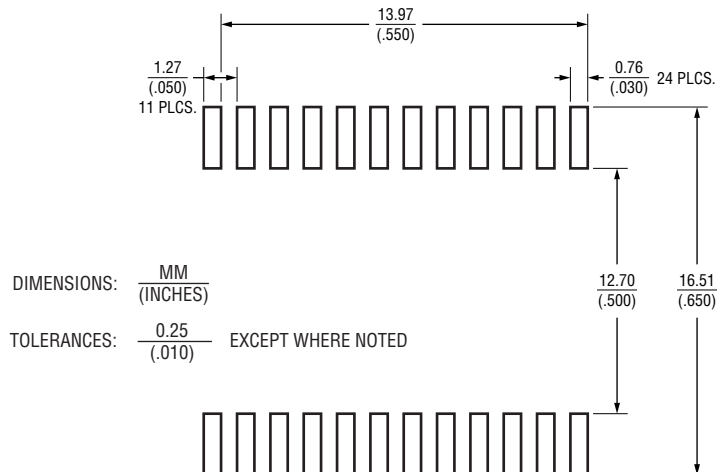
### Product Dimensions



### Electrical Schematic



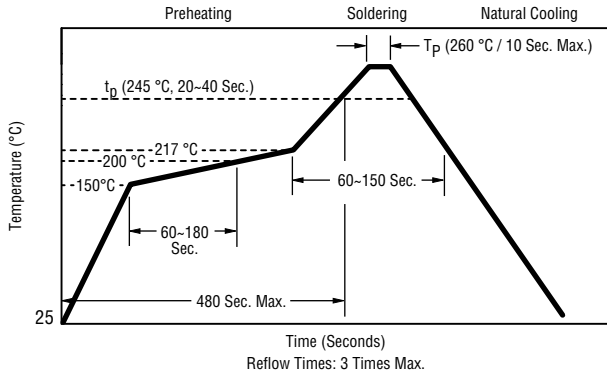
### Recommended Layout



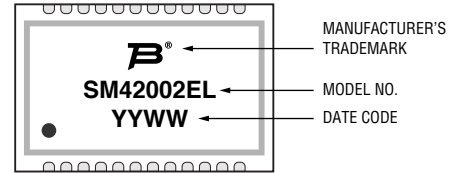
# SM42002EL - 2.5 GbE Chip LAN Transformer Module

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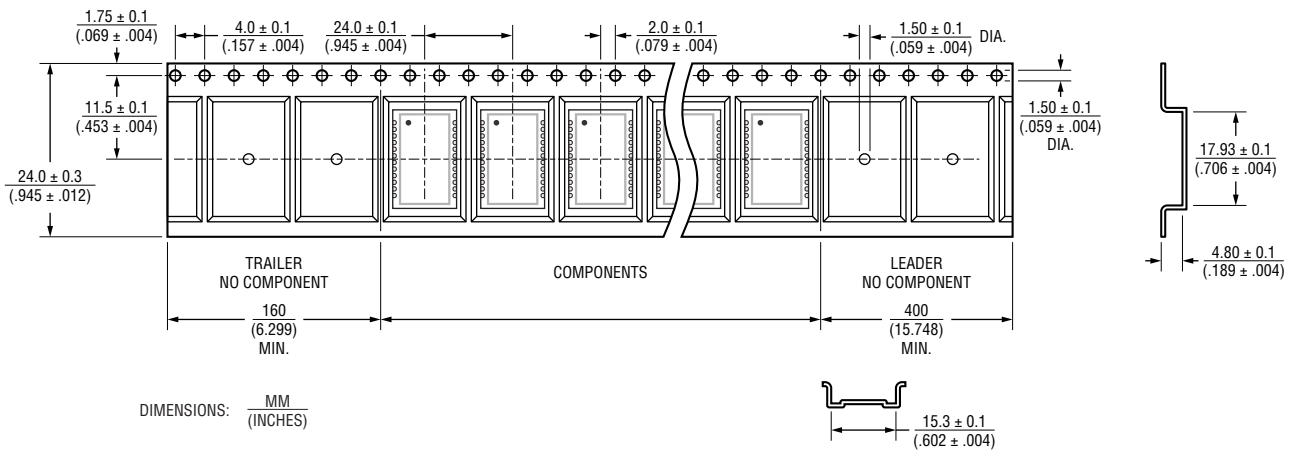
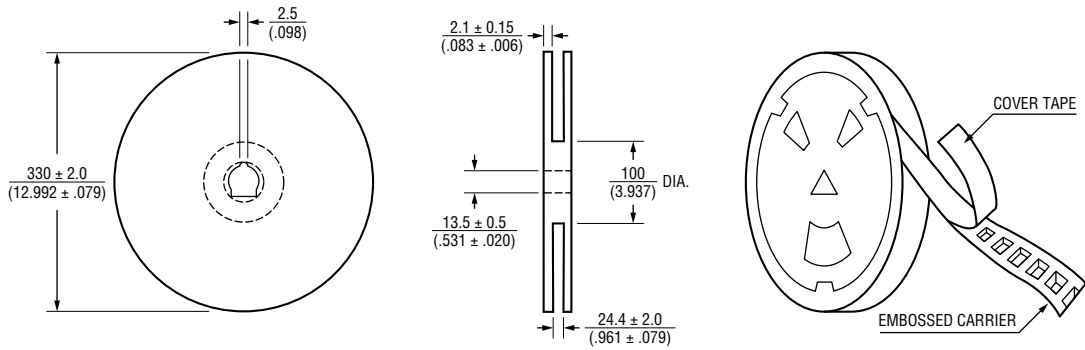
## Solder Profile



## Typical Part Marking



## Packaging Specifications



USER DIRECTION OF FEED →  
QTY: 400 PCS. PER REEL

REV. 01/22

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