

\*ROHS COMPLIANT and  
\*\*HALOGEN FREE



**BOURNS®**

## Features

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

## SM43001EL - 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

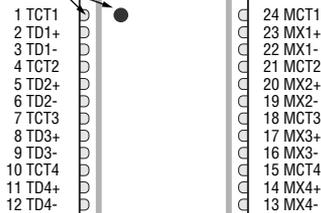
Storage Temperature..... -25 °C to +85 °C

### Packaging Specifications

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

### Pin Layout

PIN 1 DOT



### How To Order

**SM43001 E L**

Model \_\_\_\_\_

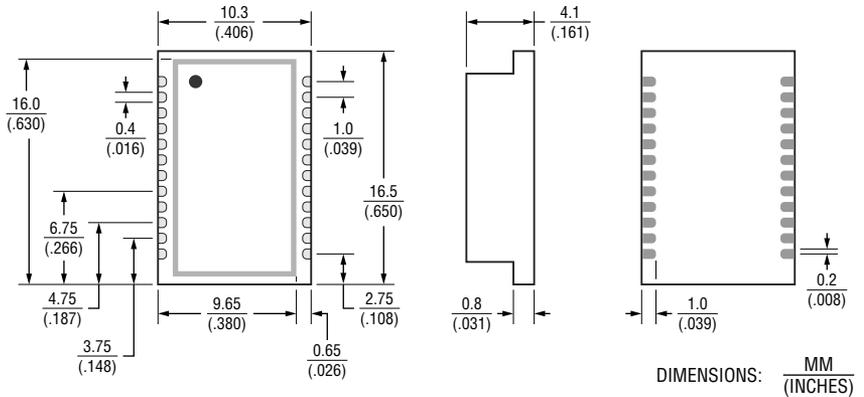
Packaging \_\_\_\_\_

E = Tape and Reel (800 pcs. per reel)

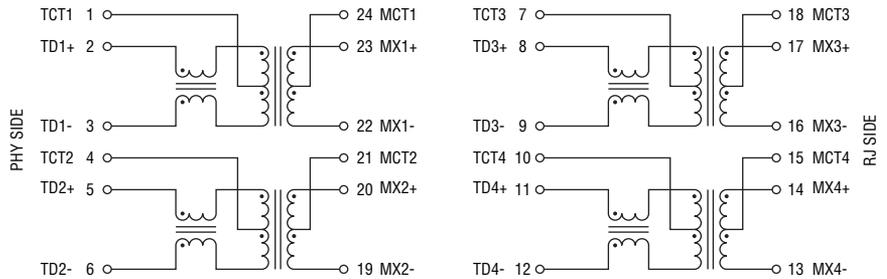
Termination \_\_\_\_\_

L = Tin (RoHS Compliant)

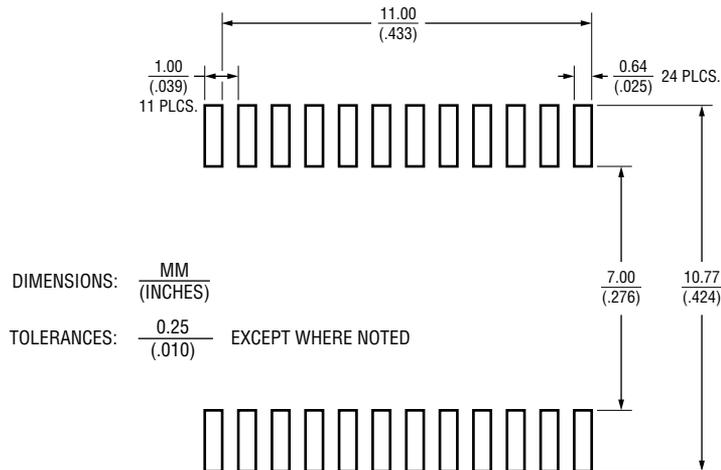
### Product Dimensions



### Electrical Schematic



### Recommended Layout



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

\* RoHS Directive 2015/863, Mar 31, 2015 and Annex.

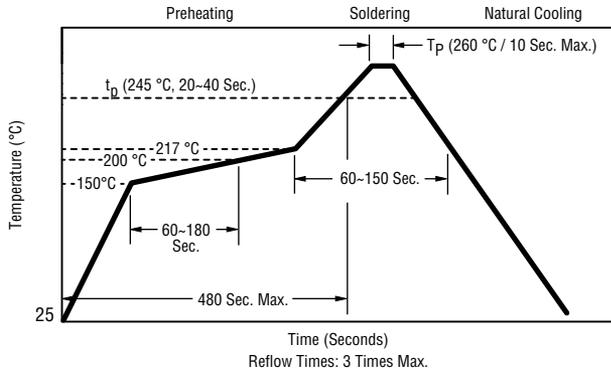
\*\* Bourns considers a product to be "halogen free" if (a) the Bromine (Br) content is 900 ppm or less; (b) the Chlorine (Cl) content is 900 ppm or less; and (c) the total Bromine (Br) and Chlorine (Cl) content is 1500 ppm or less.

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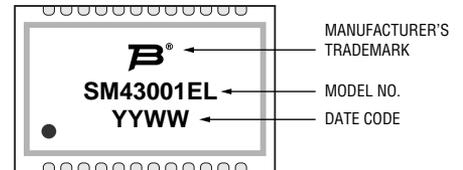
# SM43001EL - 10 GbE Chip LAN Transformer Module



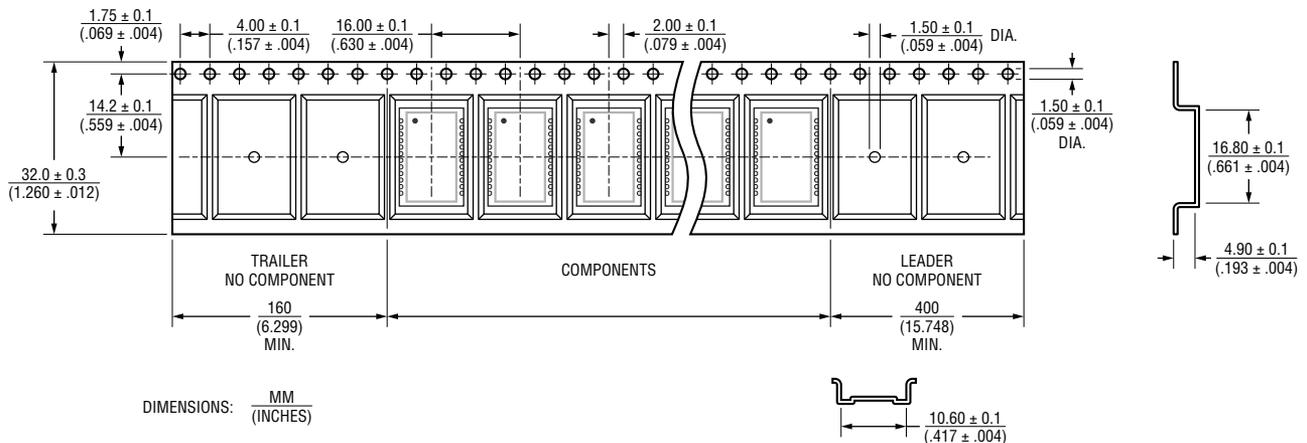
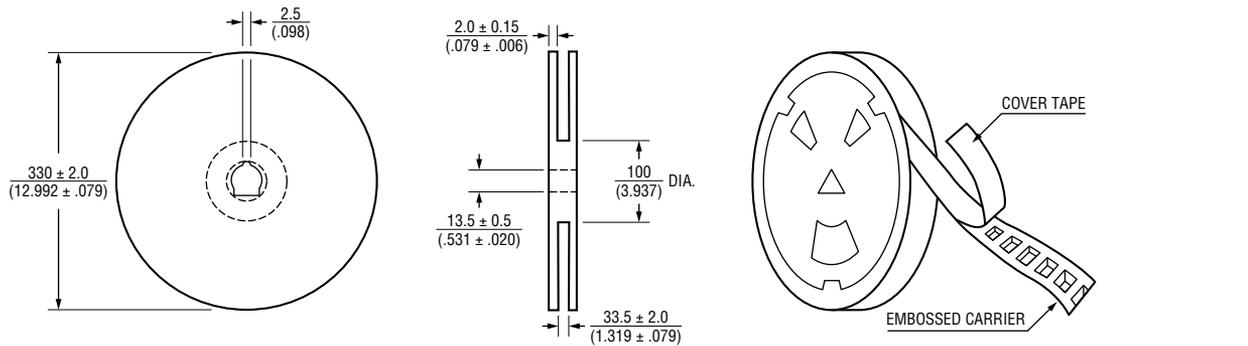
## Solder Profile



## Typical Part Marking



## Packaging Specifications



USER DIRECTION OF FEED →  
QTY: 800 PCS. PER REEL

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