



**THE DATASHEET OF
SM43001EL**





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 μ 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

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

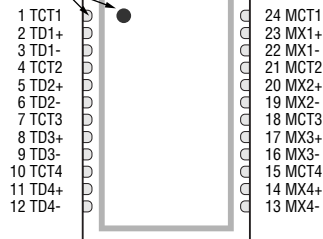
Storage Temperature.... -25 °C to +85 °C

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)



WARNING Cancer and Reproductive Harm
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.

Specifications are subject to change without notice.

Users should verify actual device performance in their

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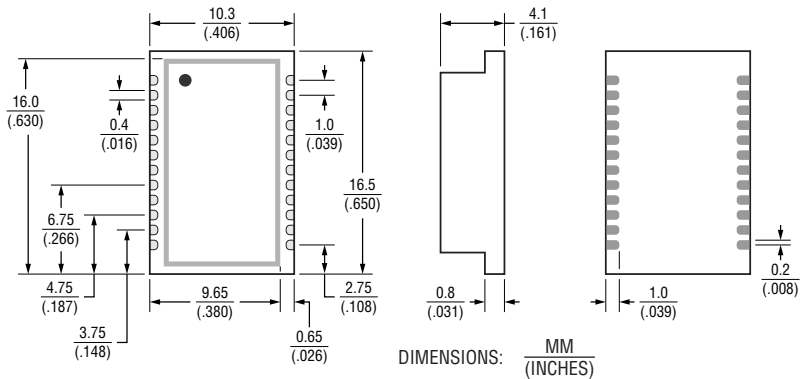


[INVENTORY](#)

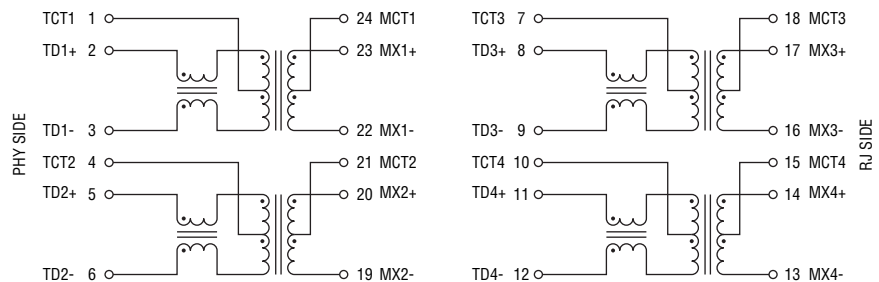


[SAMPLES](#)

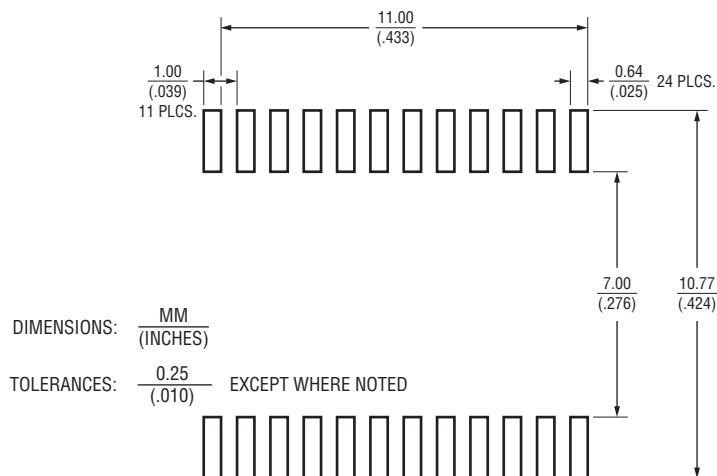
Product Dimensions



Electrical Schematic



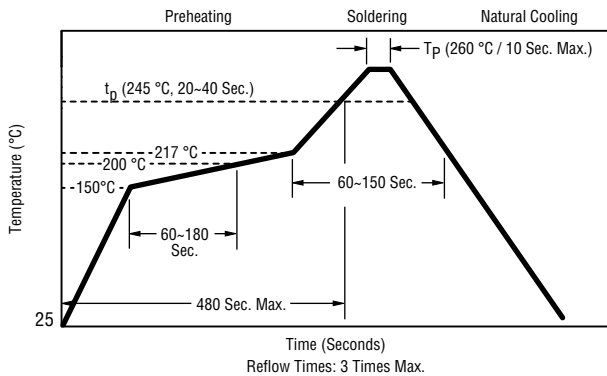
Recommended Layout



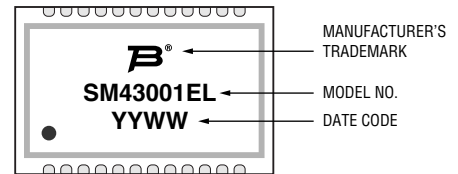
SM43001EL - 10 GbE Chip LAN Transformer Module



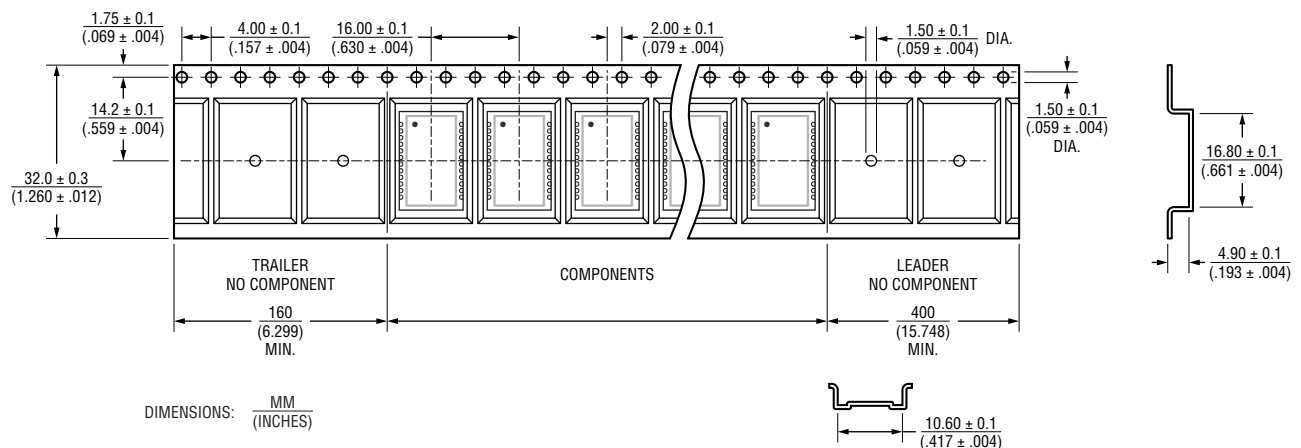
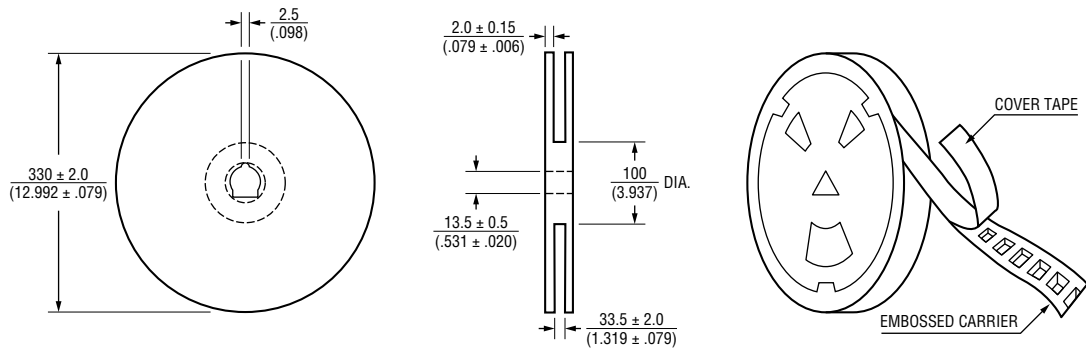
Solder Profile



Typical Part Marking



Packaging Specifications



DIMENSIONS: $\frac{\text{MM}}{\text{(INCHES)}}$

USER DIRECTION OF FEED
 QTY: 800 PCS. PER REEL

01/13/21

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