



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 μ 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+15log₁₀(f/40) min.

FEXT

1-100 MHz..... 43-20log₁₀(f/100) min.

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

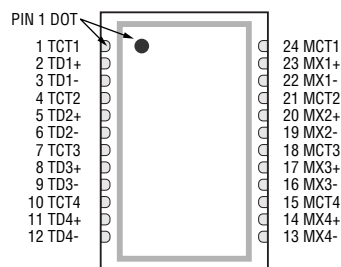
Operating Temperature..... 0 °C to +85 °C

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

* 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
 specific applications. The products described herein and
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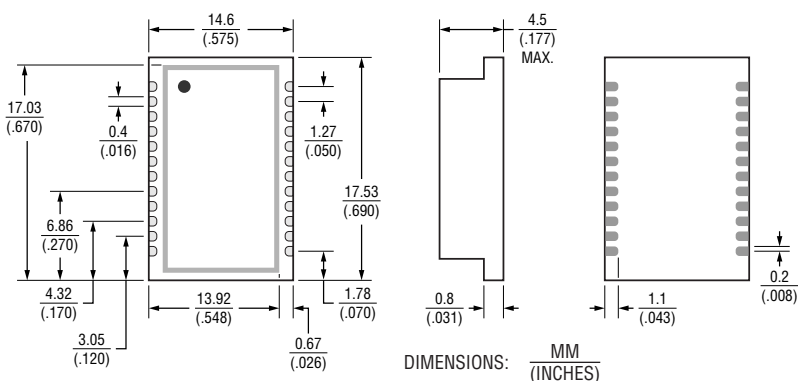


[SAMPLES](#)

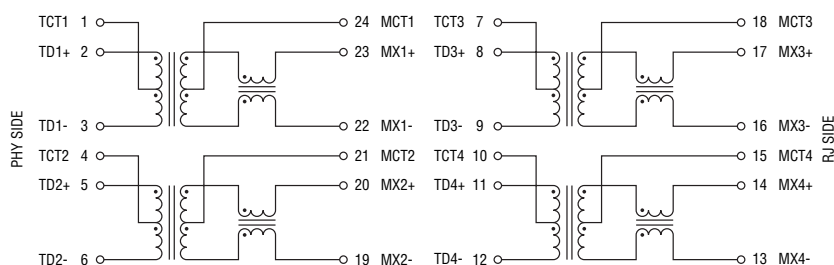


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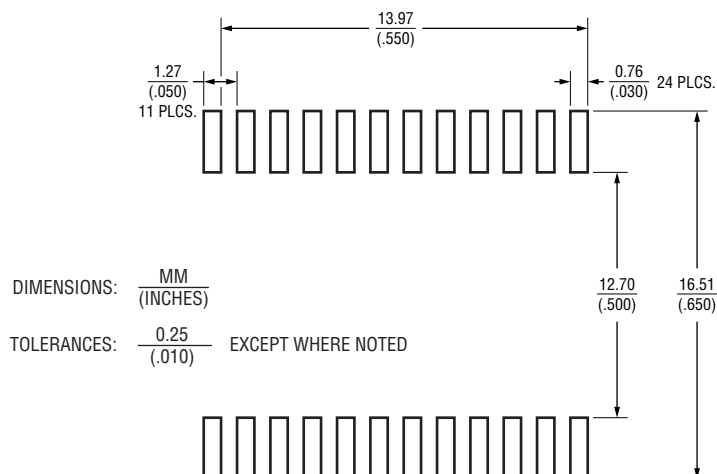
Product Dimensions



Electrical Schematic



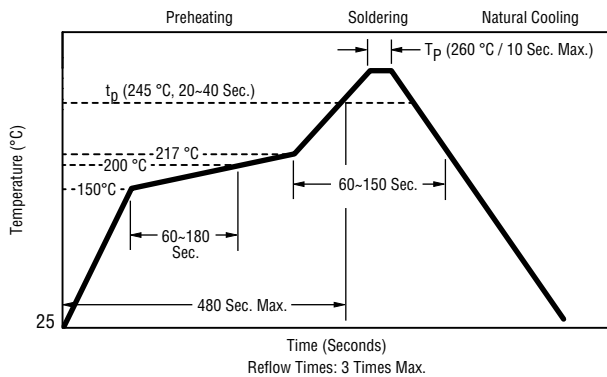
Recommended Layout



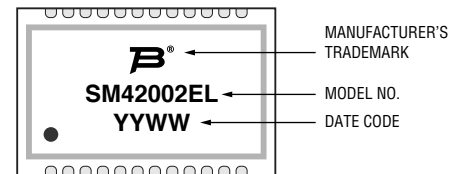
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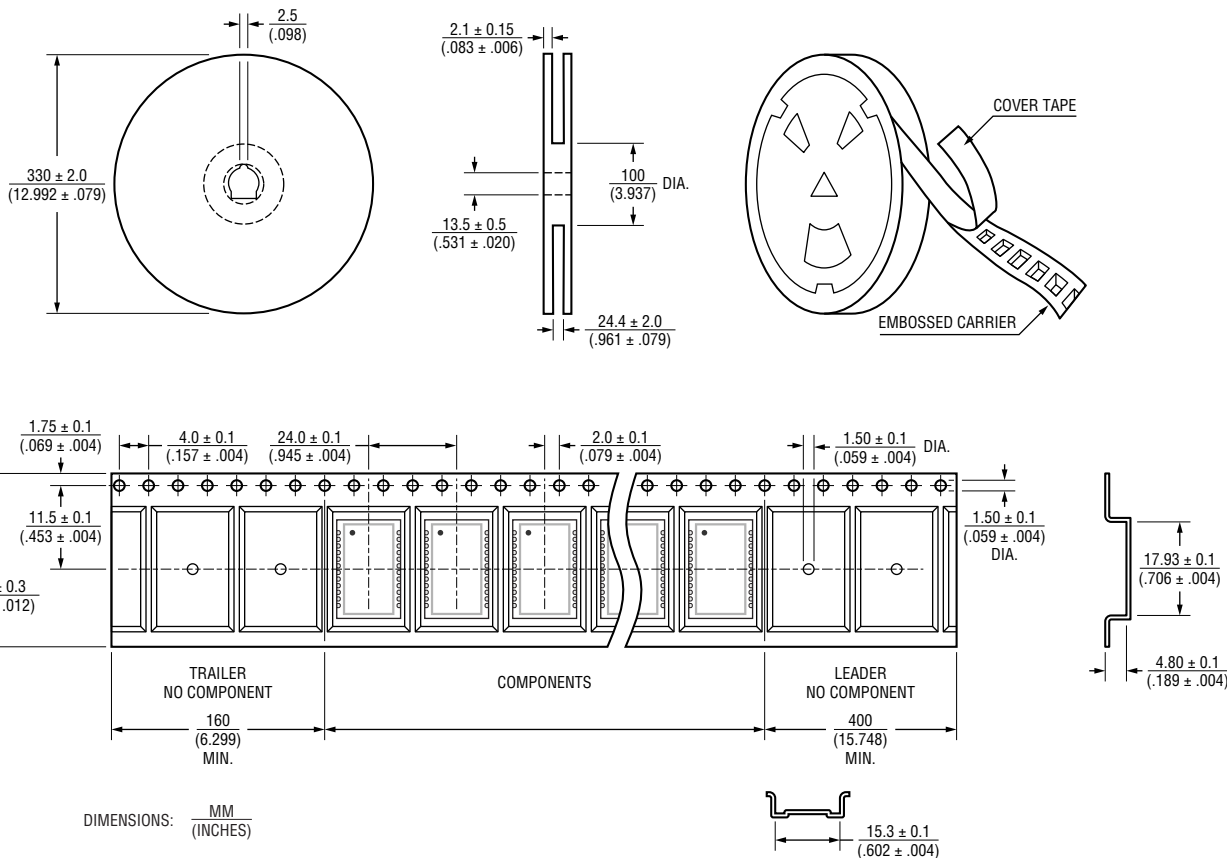
Solder Profile



Typical Part Marking



Packaging Specifications



USER DIRECTION OF FEED

QTY: 400 PCS. PER REEL

REV. 01/22

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