



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.

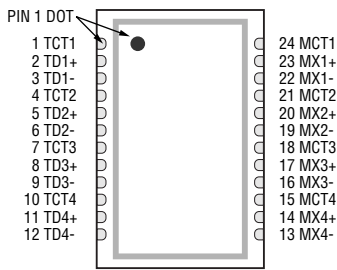
Operating Temperature..... 0 °C to +85 °C

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

Packaging Specifications

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

Pin Layout



How To Order

SM42002 E L

Model _____

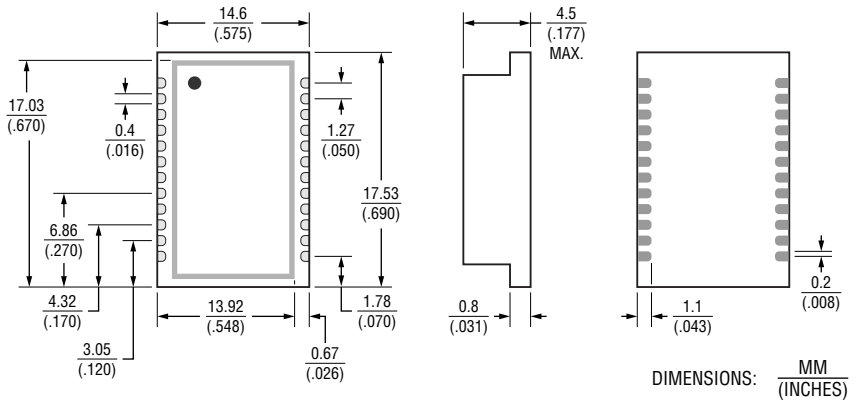
Packaging _____

E = Tape and Reel (400 pcs. per reel)

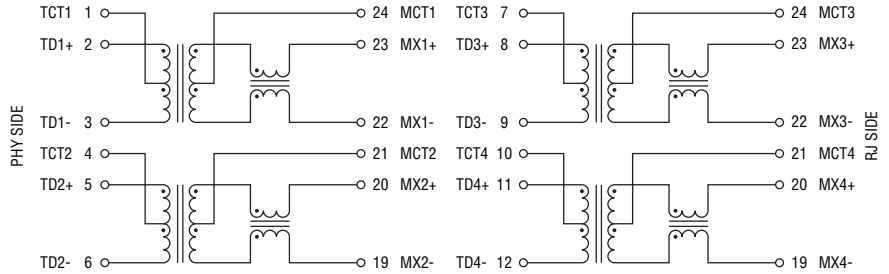
Termination _____

L = Tin (RoHS Compliant)

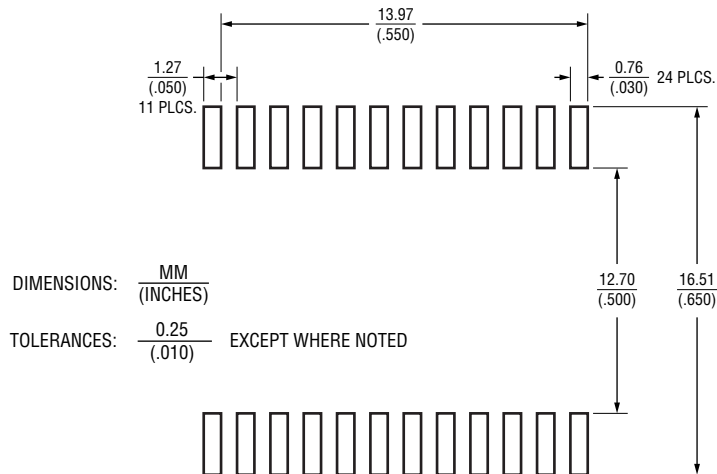
Product Dimensions



Electrical Schematic



Recommended Layout



WARNING Cancer and Reproductive Harm www.P65Warnings.ca.gov

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

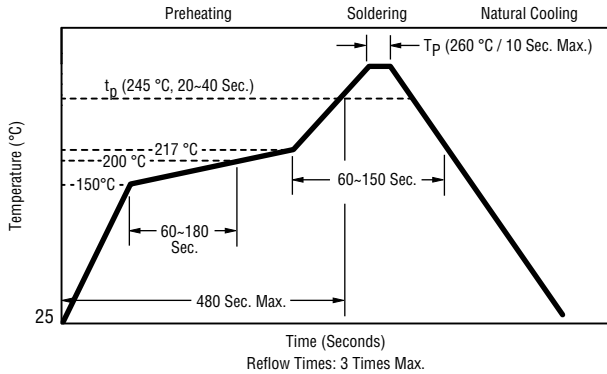
** Bourns considers a product to be "halogen free" if (a) the Bromine (Br) content is 900 ppm or less; (b) the Chlorine (Cl) content is 900 ppm or less; and (c) the total Bromine (Br) and Chlorine (Cl) content is 1500 ppm or less.

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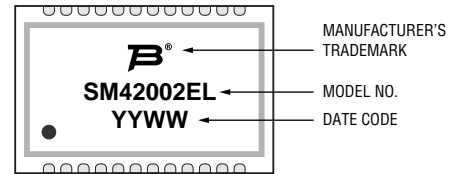
SM42002EL - 2.5 GbE Chip LAN Transformer Module



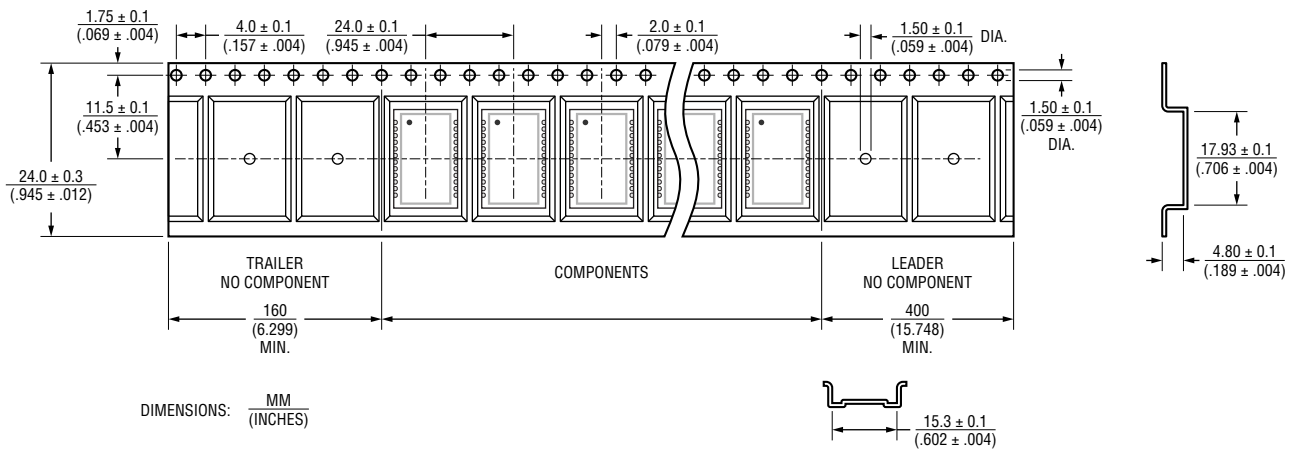
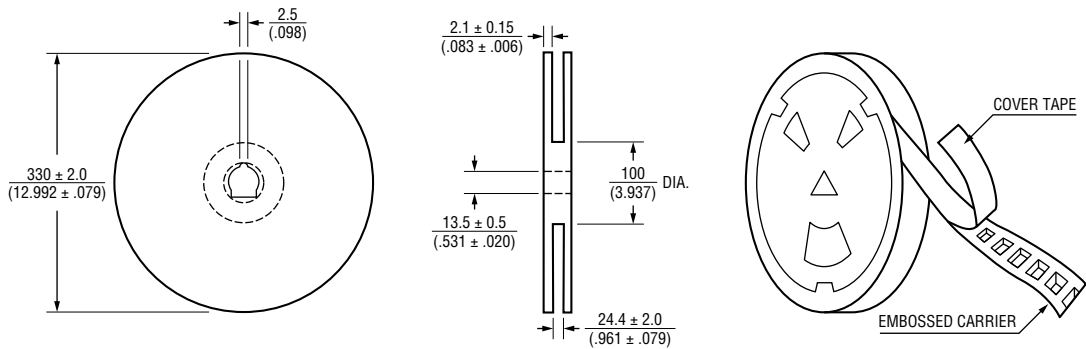
Solder Profile



Typical Part Marking



Packaging Specifications



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

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