



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

1 TCT1	24 MCT1
2 TD1+	23 MX1+
3 TD1-	22 MX1-
4 TCT2	21 MCT2
5 TD2+	20 MX2+
6 TD2-	19 MX2-
7 TCT3	18 MCT3
8 TD3+	17 MX3+
9 TD3-	16 MX3-
10 TCT4	15 MCT4
11 TD4+	14 MX4+
12 TD4-	13 MX4-

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.

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Additional Information

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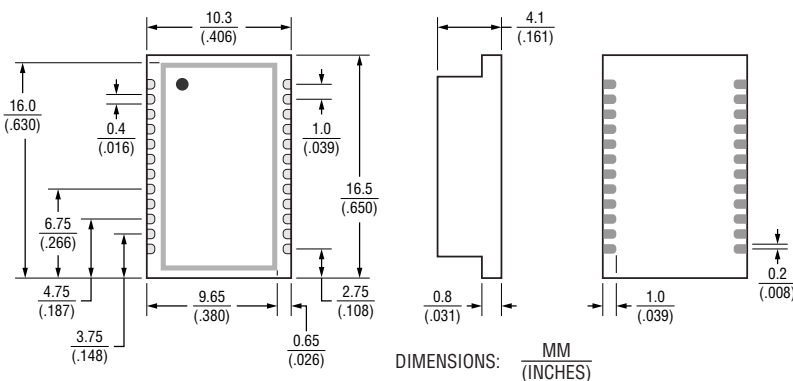


[INVENTORY](#)

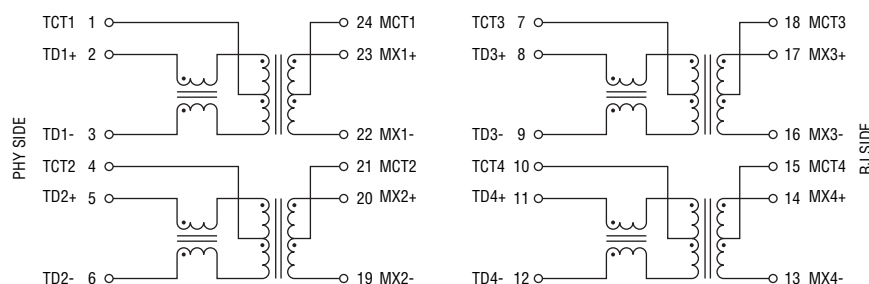


[SAMPLES](#)

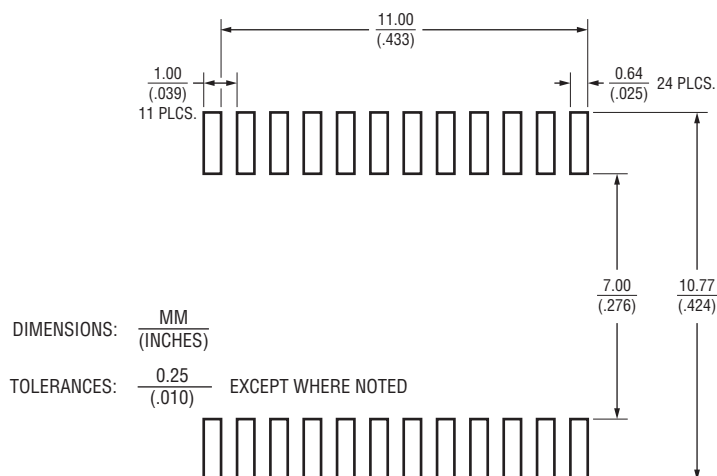
Product Dimensions



Electrical Schematic



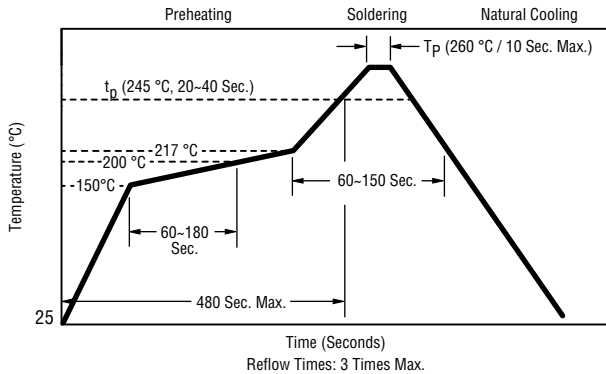
Recommended Layout



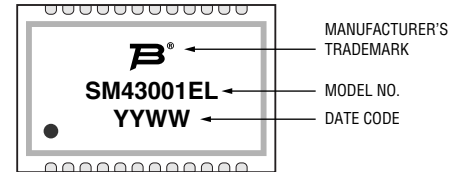
SM43001EL - 10 GbE Chip LAN Transformer Module

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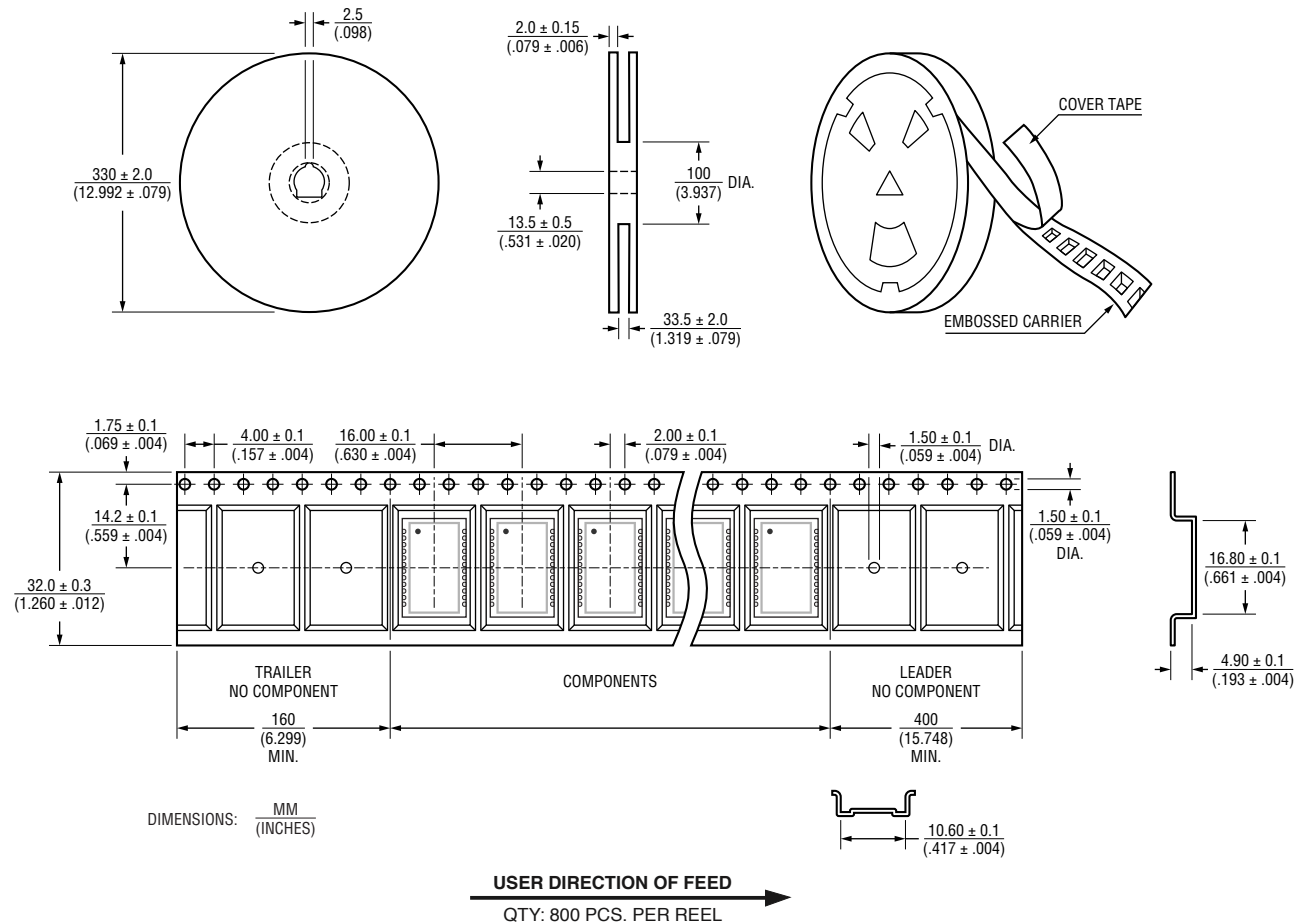
Solder Profile



Typical Part Marking



Packaging Specifications



01/13/21

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Asia-Pacific: Tel: +886-2 2562-4117 • Email: asiacus@bourns.com
 EMEA: Tel: +36 88 885 877 • Email: eurocus@bourns.com
 The Americas: Tel: +1-951 781-5500 • Email: americus@bourns.com
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