



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.

Specifications are subject to change without notice. Users should verify actual device performance in their specific applications. The products described herein and this document are subject to specific legal disclaimers as set forth on the last page of this document, and at www.bourns.com/docs/legal/disclaimer.pdf.

Additional Information

Click these links for more information:



[PRODUCT](#)



[TECHNICAL
LIBRARY](#)

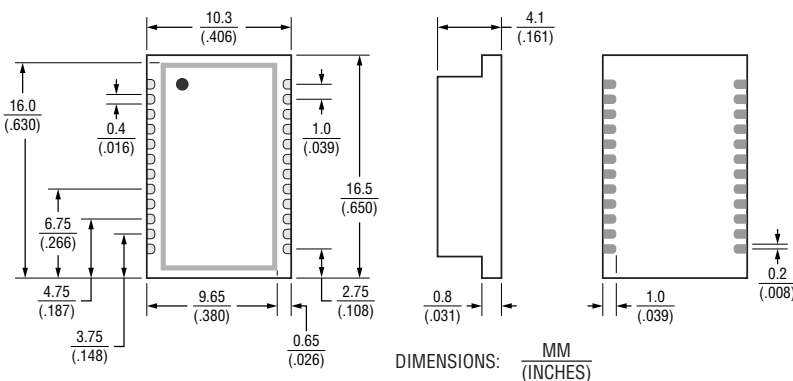


[INVENTORY](#)

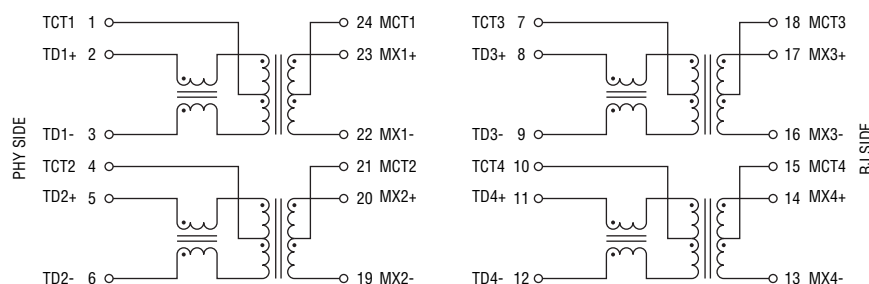


[SAMPLES](#)

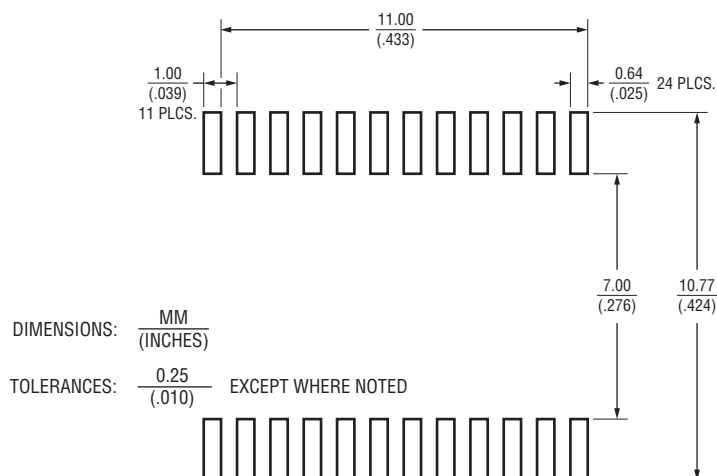
Product Dimensions



Electrical Schematic

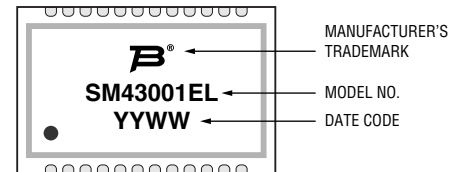


Recommended Layout



BOURNS®

Typical Part Marking



Technical drawing of a 35mm film reel showing top, side, and end views with dimensions in mm and inches.

Top View Dimensions:

- Overall Diameter: 330 ± 2.0 (12.992 $\pm$.079)
- Center Hole Diameter: 2.5 (.098)

Side View Dimensions:

- Reel Thickness: 2.0 ± 0.15 (.079 $\pm$.006)
- Flange Thickness: 13.5 ± 0.5 (.531 $\pm$.020)
- Flange Diameter: 100 (3.937) DIA.
- Hub Diameter: 33.5 ± 2.0 (1.319 $\pm$.079)

End View Dimensions:

- COVER TAPE
- EMBOSSED CARRIER

Carrier Dimensions (Top View):

- Carrier Width: 1.75 ± 0.1 (.069 $\pm$.004)
- Carrier Height: 14.2 ± 0.1 (.559 $\pm$.004)
- Carrier Thickness: 0.3 (.012)
- Carrier Spacing: 4.00 ± 0.1 (.157 $\pm$.004)
- Carrier Length: 16.00 ± 0.1 (.630 $\pm$.004)
- Carrier Diameter: 2.00 ± 0.1 (.079 $\pm$.004)
- Carrier Width (Right): 1.50 ± 0.1 (.059 $\pm$.004) DIA.
- Carrier Height (Right): 1.50 ± 0.1 (.059 $\pm$.004) DIA.
- Carrier Length (Right): 16.80 ± 0.1 (.661 $\pm$.004)
- Carrier Thickness (Right): 4.90 ± 0.1 (.193 $\pm$.004)

Carrier Labels:

- TRAILER NO COMPONENT
- COMPONENTS
- LEADER NO COMPONENT

Carrier Dimensions (Bottom View):

- Carrier Width: 160 (6.299) MIN.
- Carrier Length: 400 (15.748) MIN.

Carrier Dimensions (Side View):

- Carrier Width: 10.60 ± 0.1 (.417 $\pm$.004)

Carrier Dimensions (End View):

- Carrier Width: 10.60 ± 0.1 (.417 $\pm$.004)

Carrier Dimensions (Bottom View):

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