

Features

- IEC 60335, IEC 60601-1 and IEC 60950-1 compliant
- Supplemental insulation
- 250 Vrms working voltage
- 4000 Vrms isolation voltage
- Expanded temperature range: -40 to +85 °C

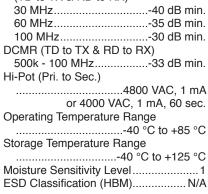
- Operating altitude up to 4 km
- RoHS compliant*

Applications

- Industrial Ethernet controls
- Ethernet home appliances
- Medical equipment**

SM13100EL 10/100 Base-T Transformer

Electrical Specifications @ 25 °C Inductance (100 kHz, 0.1 V, 8 mADC) 350 *μ*H min. Leakage Inductance (TD & RD - TX & RX shorted, @100 kHz, 0.1 V)...... 0.5 μH max. DCR (TD & RD)...... 1200 m Ω max. Turns Ratio (±3 %) TD: TX......1CT:1CT RD: RX......1CT:1CT Insertion Loss (TD to TX & RD to RX, 1-100 MHz)-2.0 dB max. Return Loss (TD & TX & RD to RX w/ 100 Ω Load) 1-30 MHz....-12 dB min. 30-45 MHz.....-10 dB min. 45-60 MHz.....-8 dB min. 60-80 MHz....-6 dB min. Cross Talk (Between Each Channel) 1-100 MHz....--40 dB min. **CMR** (TD to TX & RD to RX) 30 MHz....-40 dB min. 60 MHz.....-35 dB min. 100 MHz.....-30 dB min. DCMR (TD to TX & RD to RX)



Packaging Specifications

Tape & Reel...... 160 pcs./reel

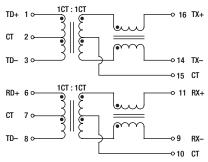
How To Order SM13100 E L Model Packaging E = Tape and Reel (160 pcs./reel) Termination L = Tin (RoHS Compliant)

*RoHS Directive 2002/95/EC Jan. 27, 2003 including annex and RoHS Recast 2011/65/EU June 8, 2011.

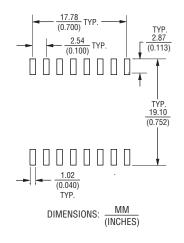
*Excluding life-saving, life-critical or life-sustaining applications.

Specifications are subject to change without notice.

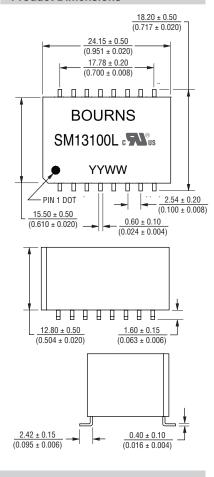
Electrical Schematic



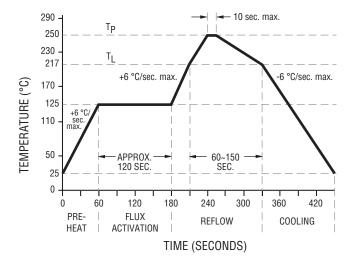
Recommended Layout



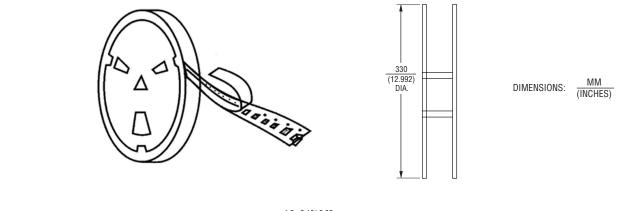
Product Dimensions

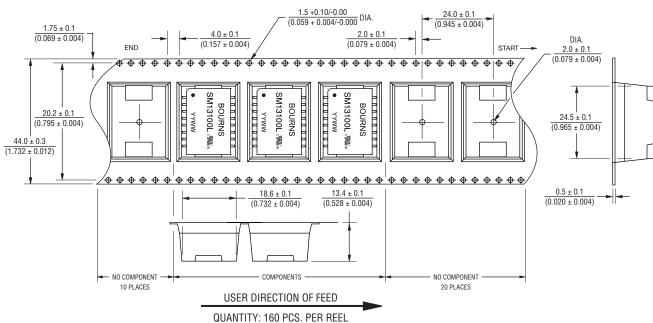


Solder Profile



Packaging Specifications





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