



Features

- IEEE 802.3bt Type 3 4PPoE Ethernet compatible
- Dual-port
- PoE++ capable
- RoHS compliant*

SM13143EL - 10/100/1000 Base-T Transformer

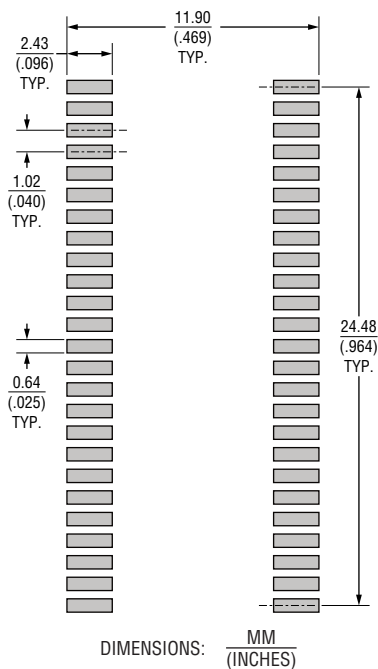
Electrical Specifications @ 25 °C

Inductance (@ 100 kHz, 0.1 V, 8 mA)	350 μ H min.
Leakage Inductance (100 kHz, 0.1 V)	0.5 μ H max.
DCR	1400 m Ω max.
Turns Ratio	(1CT:1CT) $\pm$ 5 %
Insertion Loss	
1-100 MHz	-1.1 dB max.
Return Loss	
1-30 MHz	-18 dB min.
40 MHz	-14.4 dB min.
50 MHz	-13.1 dB min.
60-80 MHz	-12 dB min.
100 MHz	-10 dB min.
Cross Talk	
1-100 MHz	-30 dB min.
Common Mode Rejection	
1-100 MHz	-30 dB min.
PoE++	60W
Each channel supports	
700 mA DC balance current	
Full channels support	
1400 mA DC balance current	
Hi-Pot	1500 Vac, 1 mA, 60 s
Operating Temperature	-40 °C to +85 °C
Storage Temperature	-40 °C to +85 °C

Packaging Specifications

Tape & Reel	350 pcs./reel
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Recommended Layout



How To Order

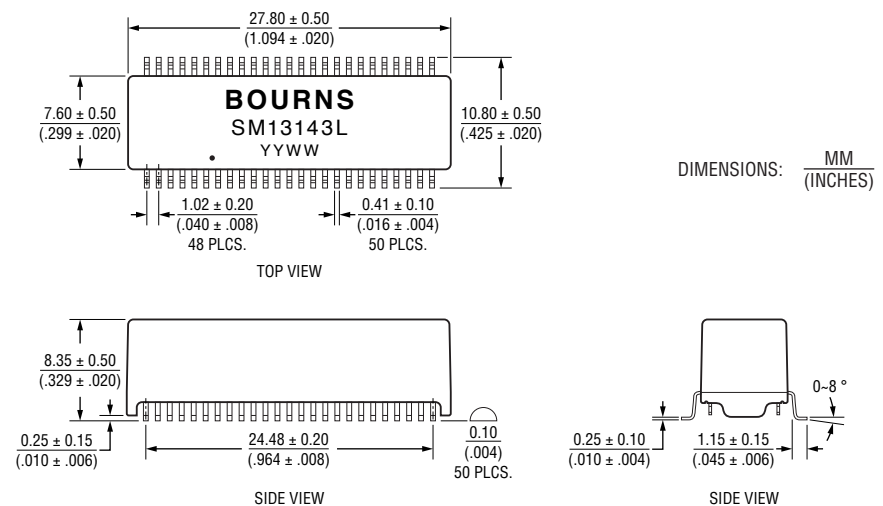
Model	SM13143 E L
Packaging	E = Tape and Reel
Termination	L = Tin finish (RoHS Compliant)

Additional Information

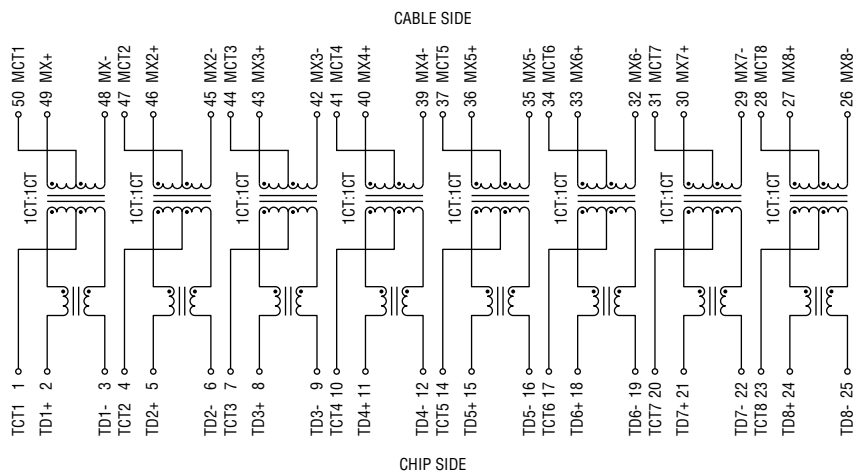
Click these links for more information:



Product Dimensions



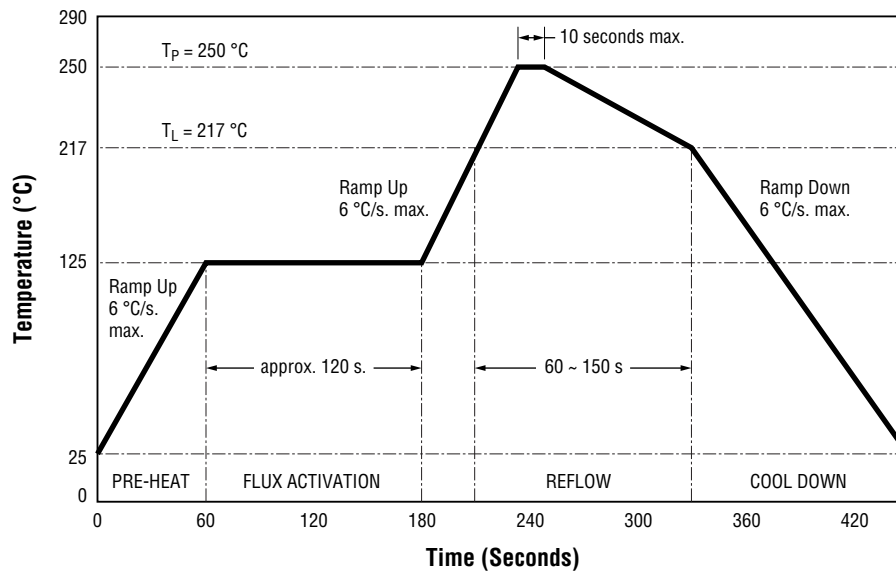
Electrical Schematic



CALIFORNIA WARNING: Can expose you to lead, a carcinogen and reproductive toxicant. See www.P65Warnings.ca.gov

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

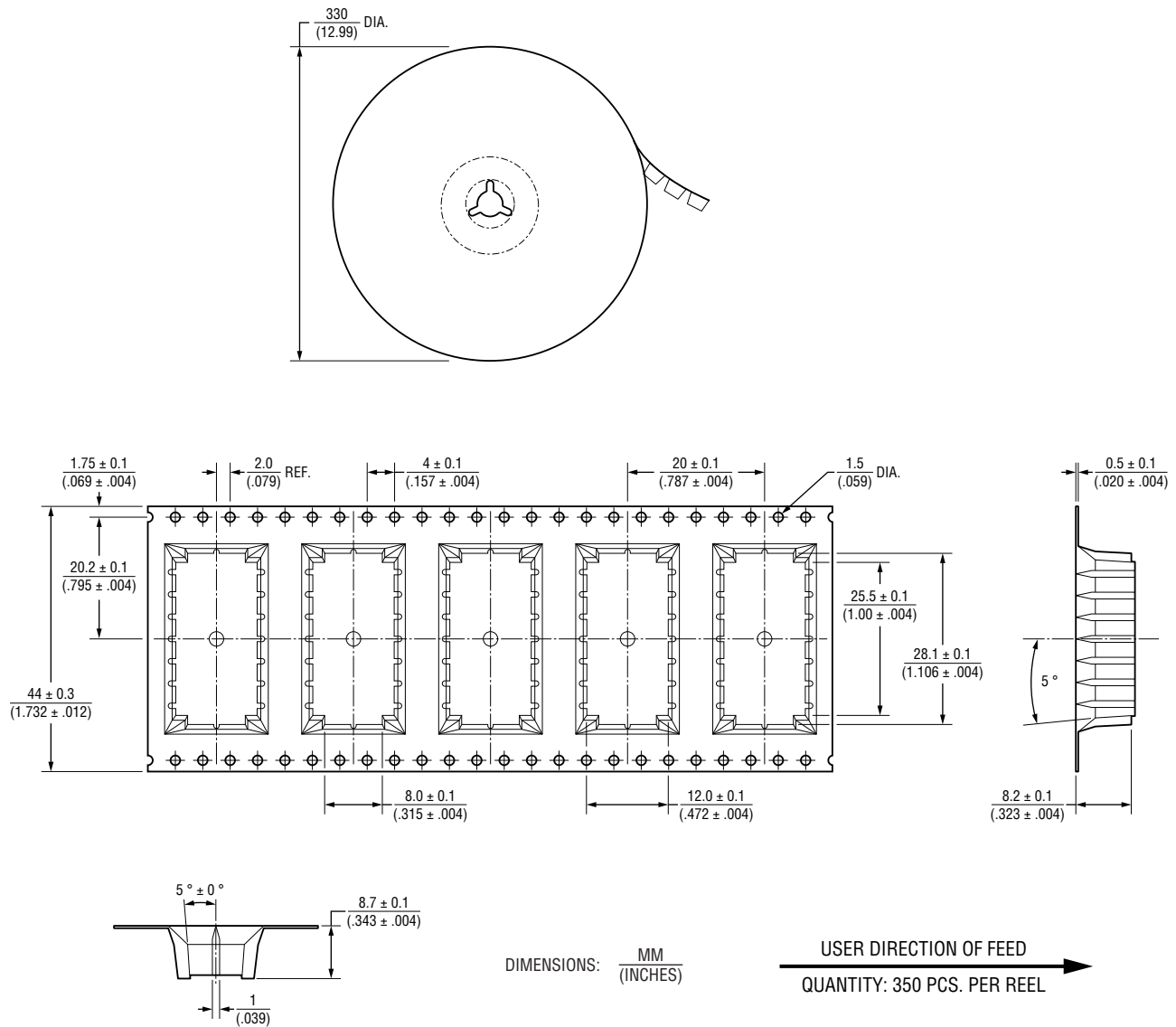
Soldering Profile



SM13143EL - 10/100/1000 Base-T Transformer

BOURNS®

Packaging Specifications



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REV. 10/25

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Users should verify actual device performance in their specific applications.

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