

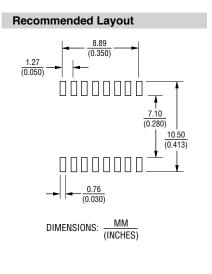
Features

- Compliant with IEEE 802.3 standards
- Designed for 10/100 Base-Tx VoIP and PoE
- RoHS compliant*

SM13126PEL - LAN 10/100 Base-Tx VolP Transformer (PoE) Modules

Electrical Specifications @ 25 °C Turns Ratio 1:1 (±3 %) OCL (@100 kHz. 0.1 V, 8 mA, DC Bias) 350 μ H min. Leakage Inductance (@ 100 kHz, 0.1 V, with 1-2-3-6-7-8 Short) 9-11 = 14-16...... 0.5 μ H max. Cw/w @ 100 kHz, 0.1 V35 pF max. **DCR** 1-3 = 6-8................ 0.8 ohm max. 9-11 = 14-16...... 1.1 ohm max. Insertion Loss 1-100 MHz.....-1.2 dB max. Return Loss (@ 100 ohms) 1-40 MHz....-16 dB min. 40-100 MHz-10 +20 log (f/80 MHz) dB min Cross Talk (between each channel) 1-100 MHz.....-25 dB min. DCMRR (TD to TX) 1-100 MHz.....-30 dB Min. PoE Current.....up to 350 mA Hi-Pot Test1500 Vac, 1 mA, 60 s Operating Temperature -40 °C to +85 °C Storage Temperature ..-40 °C to +125 °C Moisture Sensitivity Level......1

Product Dimensions 12.80 ± 0.50 (0.504 ± 0.02) 8.89 (0.350) **BOURNS** 6.90 ± 0.50 9.30 ± 0.50 SM13126PL $\overline{(0.272 \pm 0.02)}$ (0.366 ± 0.02) YYWW $\frac{0.46 \pm 0.10}{(0.018 \pm 0.004)}$ (0.050 ± 0.004) 5.65 ± 0.50 (0.222 ± 0.02) 0.25 ± 0.15 0.70 ± 0.15 (0.028 ± 0.006)

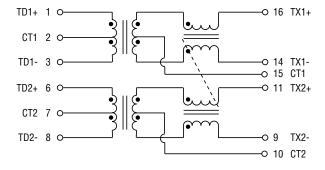


Packaging Specifications

Tape & Reel...... 600 pcs./reel

ESD Classification (HBM).....N/A

Electrical Schematic



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

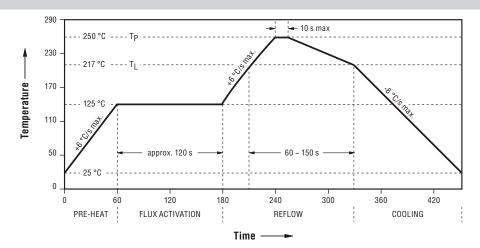
*RoHS Directive 2015/863, Mar 31, 2015 and Annex.

Specifications are subject to change without notice.

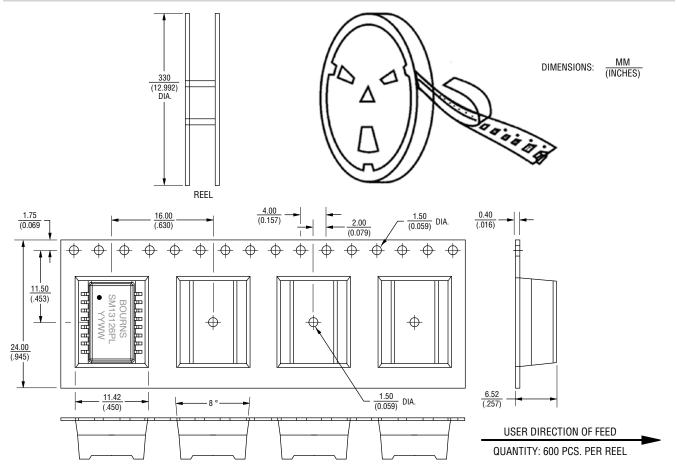
Users should verify actual device performance in their specific applications.

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Solder Profile



Packaging Specifications



REV. 05/19

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