

Features

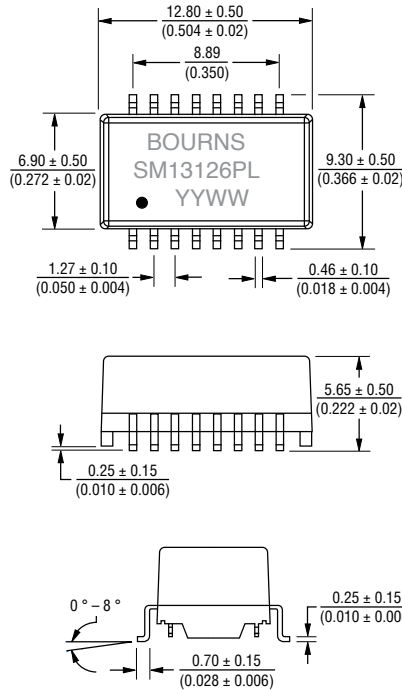
- Compliant with IEEE 802.3 standards
- Designed for 10/100 Base-Tx VoIP and PoE
- RoHS compliant*

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

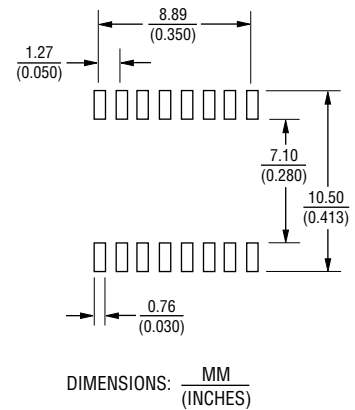
Electrical Specifications @ 25 °C

Turns Ratio 1 : 1 (±3 %)
 OCL (@100 kHz,
 0.1 V, 8 mA, DC Bias) 350 μH min.
 Leakage Inductance
 (@ 100 kHz, 0.1 V,
 with 1-2-3-6-7-8 Short)
 9-11 = 14-16 0.5 μH max.
 Cw/w @ 100 kHz, 0.1 V 35 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 Test 1500 Vac, 1 mA, 60 s
 Operating Temperature -40 °C to +85 °C
 Storage Temperature -40 °C to +125 °C
 Moisture Sensitivity Level 1
 ESD Classification (HBM) N/A

Product Dimensions



Recommended Layout



Packaging Specifications

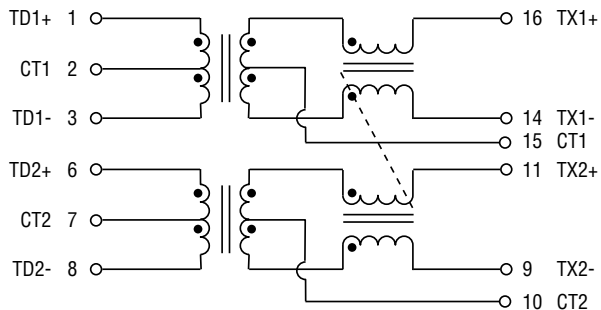
Tape & Reel 600 pcs./reel

How To Order

SM13126 P E L

Model _____
 Construction _____
 P = Potted
 Packaging _____
 E = Tape and Reel (600 pcs. per reel)
 Termination _____
 L = Tin finish (RoHS Compliant)

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.

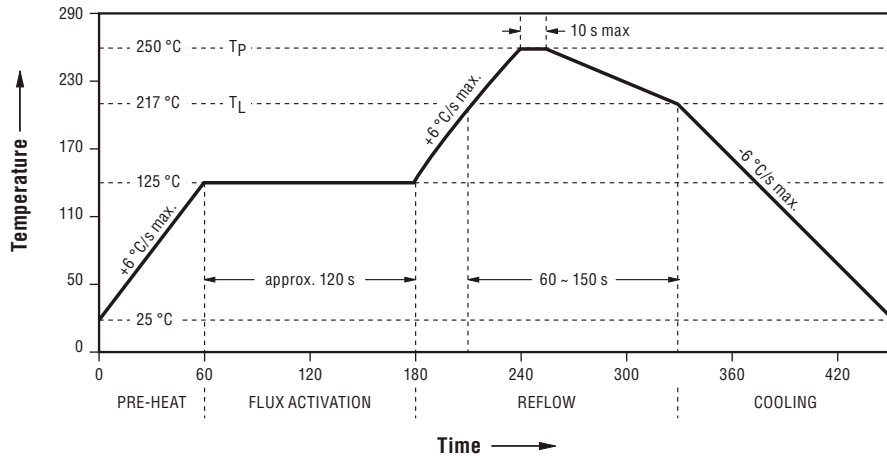
Users should verify actual device performance in their specific applications.

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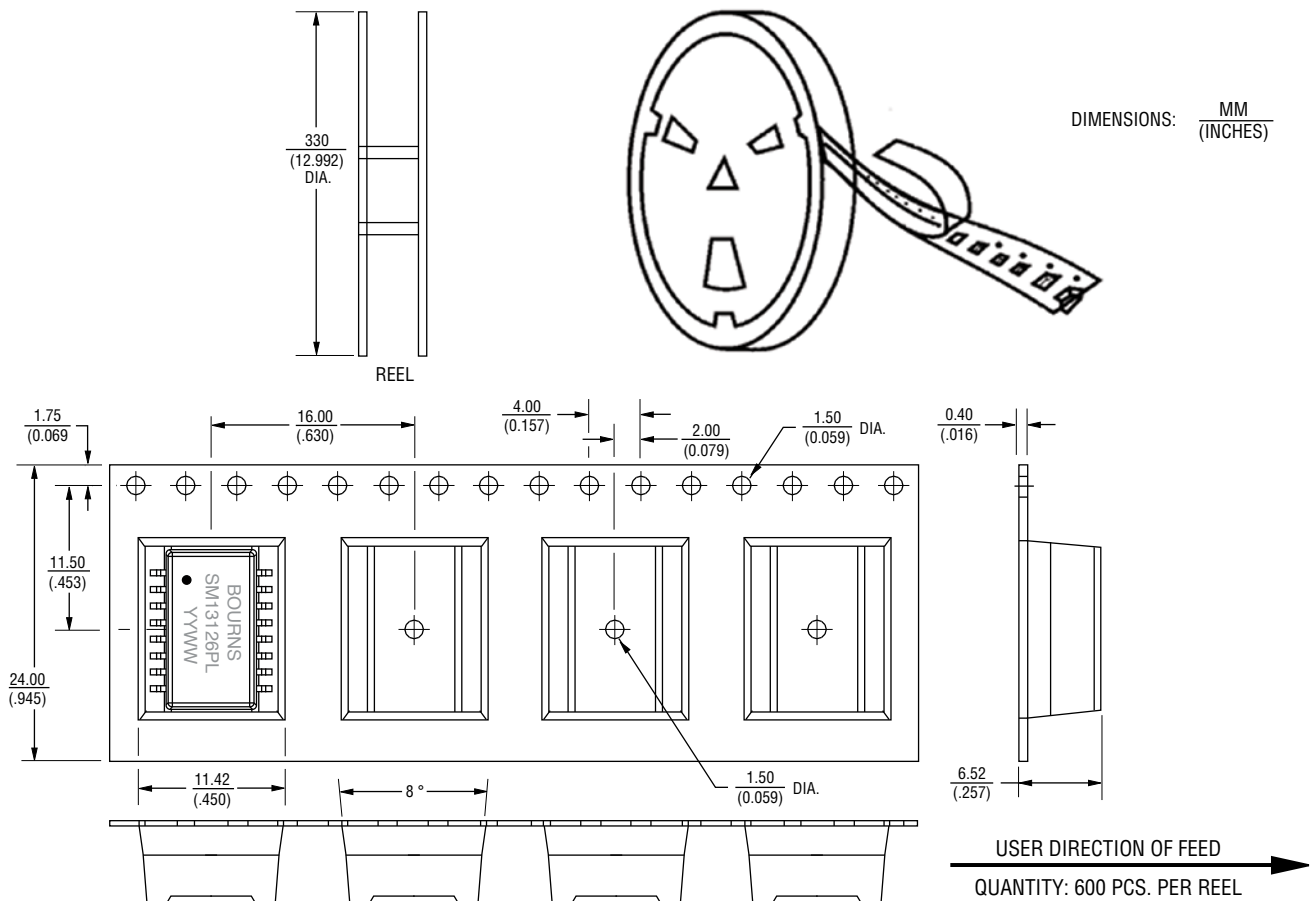
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Solder Profile



Packaging Specifications



REV. 05/19

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