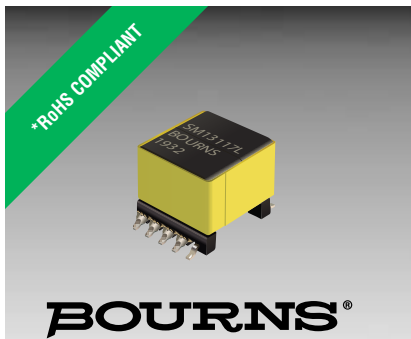




Features

- 13 W PoE
- 1.5 kVrms isolation voltage
- Supports IEEE 802.3af compliant, integrated PoE PD and PWM controllers
- UL 94V-0 rated bobbin
- UL 1446 Class B Insulation System
- RoHS compliant*

SM13117EL - PoE Flyback Transformer

Electrical Specifications @ 25 °C

Bourns Part Number	Power (W)	L3-4 (μ H) $\pm$ 10 % @ 250 kHz / 0.1 V	DCR (m Ω) Max.			Turns Ratio $\pm$ 3 % (3-4) : (2-1) : (7-9) : (8-10)	Input	Output
			3-4	2-1	7,8 (short) – 9,10 (short)			
SM13117EL	13	127	199	308	33	1 : 0.5 : 0.5 : 0.5	36-72 Vdc 250 kHz	12 Vdc @ 1.08 A

General Specifications

Primary (3-4) Leakage Inductance
(250 kHz, 0.1 V Aux. Sec. shorted)
..... 2.0 μ H Max.

Hi-Pot
Pri/Sec..... 1.5 kVac, 2 mA, 2 Sec.
Pri/Aux, Pri/core, Sec/core
..... 0.5 kVAC, 2 mA, 2 Sec.

Operating Temperature..... -40 to +125 °C
(temperature rise included)

Storage Temperature (Component)
..... -40 to +125 °C

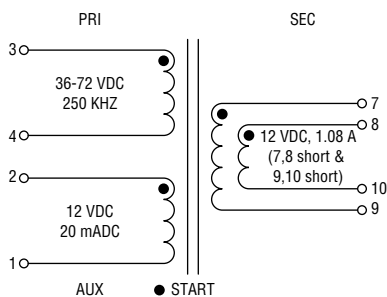
Moisture Sensitivity Level..... 1

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

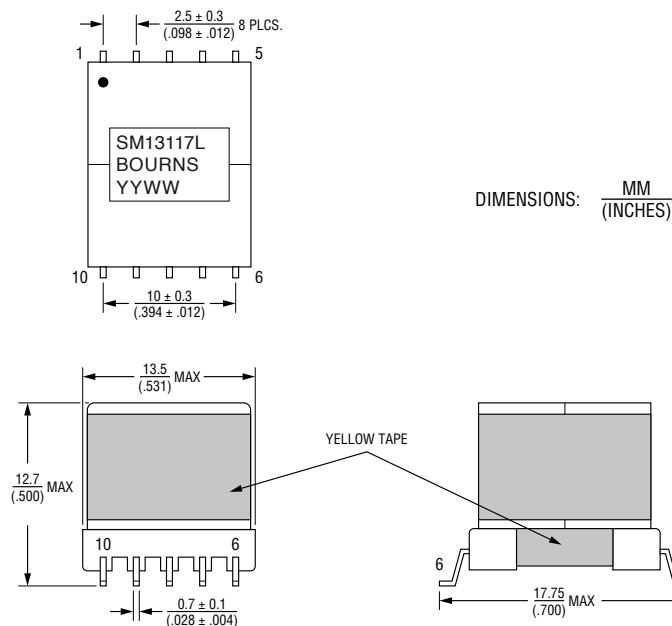
Materials

Core..... Ferrite
Wire..... Enamelled copper
Terminal Finish..... Sn
Packaging..... 200 pcs. per 13-inch reel

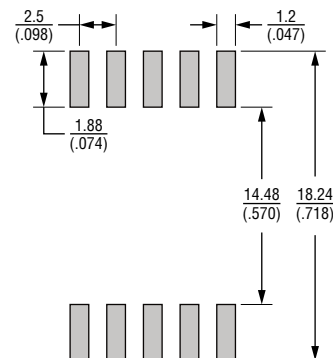
Electrical Schematic



Product Dimensions



Recommended Layout



How To Order

Model **SM13117 E L**

Packaging _____
E = Tape and Reel (200 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.

Specifications are subject to change without notice.

Users should verify actual device performance in their specific applications.

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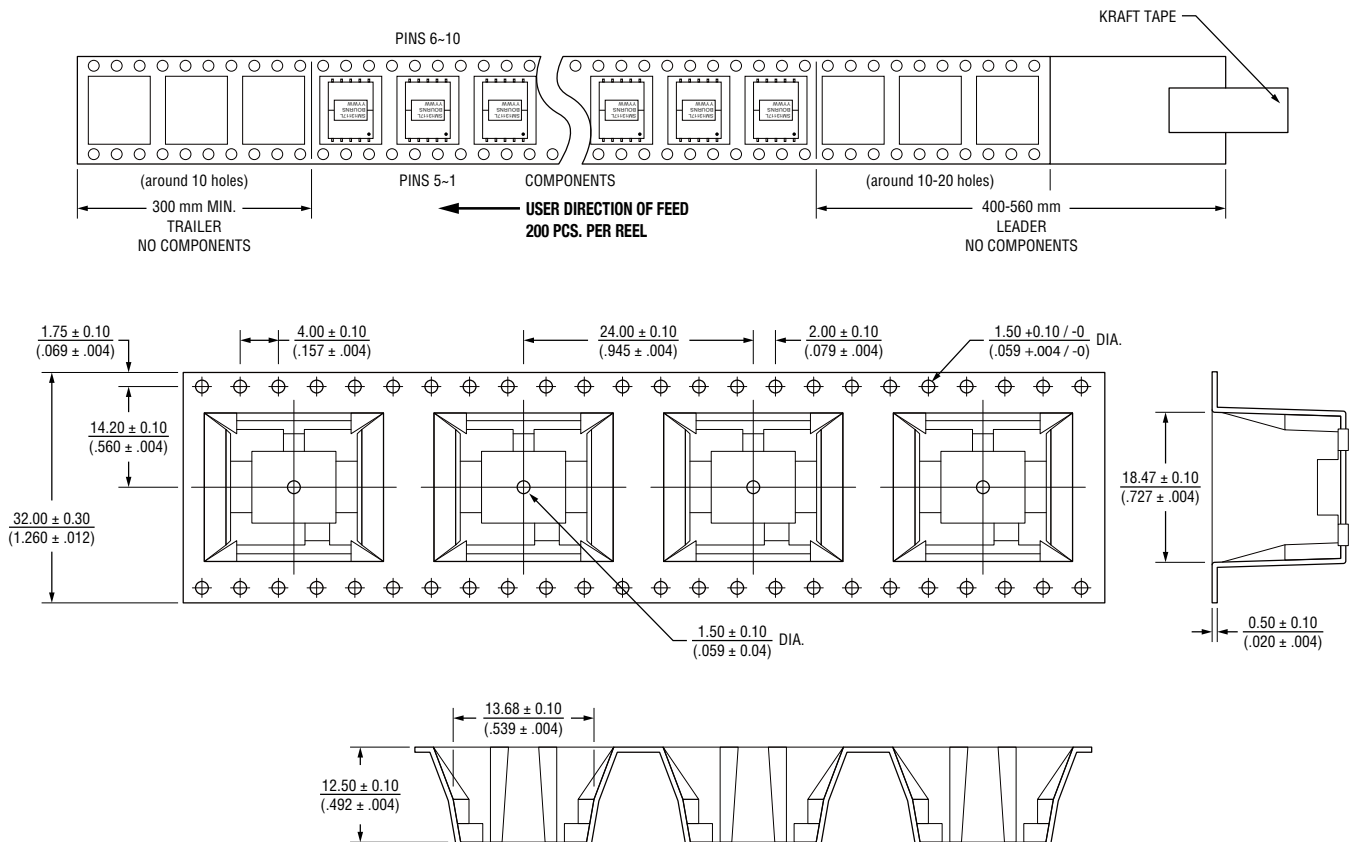
- Ramp-up rate = 3 °C/sec. max.
- Ramp-down rate = 6 °C/sec. max.
- $T_L = 217\text{ °C}$
- $t_L = 60\text{-}150\text{ sec.}$
- $T_p = 250 \pm 3\text{ °C}$
- Time within 5 °C of actual Peak Temp (t_p) = 20–40 sec.
- $T_{smin} = 150\text{ °C}$
- $T_{smax} = 200\text{ °C}$
- T_{smin} to $T_{smax} = 60\text{-}180\text{ sec.}$,
25 °C to Peak Temperature = 8 min. max.

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SM13117EL - PoE Flyback Transformer

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Packaging Specifications



DIMENSIONS: $\frac{\text{MM}}{(\text{INCHES})}$

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REV. 10/19

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