

### **Features**

- IEEE 802.3 Ethernet compatible
- Discrete transformers and common mode chokes for flexible PCB layout
- PoF+
- Pair with common mode choke SRF2012A-801Y for EMI reduction
- Expanded temperature range: -40 to +85 °C
- RoHS compliant\*

## SM453229-231N7Y - 10/100/1000 Base-T PoE+ Chip LAN Transformer

### Electrical Specifications at 25 °C

Inductance

@ 100 kHz, 0.1 V, 0 mADC (Pin 1-2 & 6-7 / short 3-4)

Inductance - DC Bias

@ 100 kHz, 0.1 V, 15 mA DC

(Pin 1-2 & 6-7 / short 3-4)

Turns Ratio (± 3 %)

(Pin 1-2: 6-7 / short 3-4)......1:1

Insertion Loss (1-100 MHz)

.....-1.5 dB max.

Capacitance

(Pin 5-3 / short 3-4) ......35 pF typ. Hi-Pot (Pin 1 to 6, short 3-4)

......1500 VAC, 60 sec. Operating Temperature.....-40 to +85 °C

Storage Temperature.....-40 to +85 °C Packaging.....2000 pcs. / reel

### **Additional Information**

Click these links for more information:









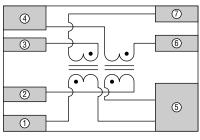


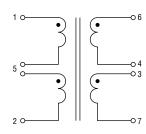
LIBRARY

INVENTORY SAM

SAMPLES

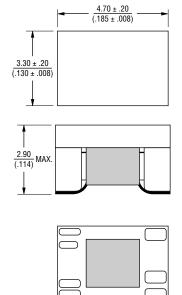
Electrical Schematic

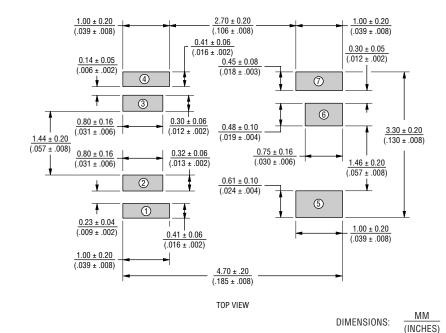




TOP VIEW

#### **Product Dimensions**





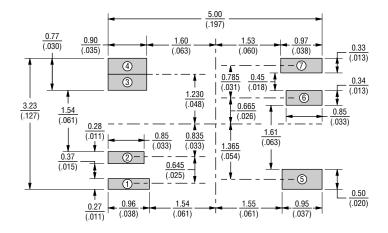
WARNING Cancer and Reproductive Harm - www.P65Warnings.ca.gov

\*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.

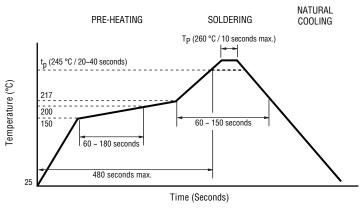
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### **Recommended Pad Layout**



MMDIMENSIONS: (INCHES)

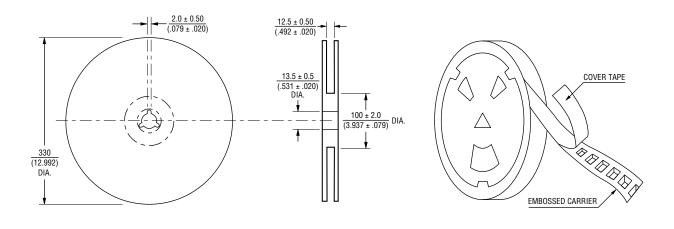
## **Soldering Profile**

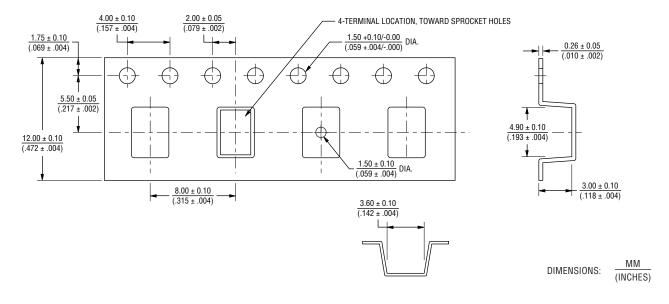


REFLOW TIMES: 3 MAX.

# SM453229-231N7Y - 10/100/1000 Base-T PoE+ Chip LAN Transformer **BOURNS**°

### **Packaging Specifications**





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REV. 02/22

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