



Features

- IEEE 802.3 Ethernet compatible
- Discrete transformers and common mode chokes for flexible PCB layout
- PoE+
- 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 & 3-4 / short 6-7)
 230 μ H min.

Inductance – DC Bias
 @ 100 kHz, 0.1 V, 15 mA DC
 (Pin 1-2 & 3-4 / short 6-7)
 200 μ H min.

Turns Ratio ($\pm 3\%$)
 Pin 1-2 & 3-4 / short 6-7 1 : 1

Insertion Loss (1-100 MHz)
 -1.5 dB max.

Capacitance (Pin 3-4) 35 pF typ.

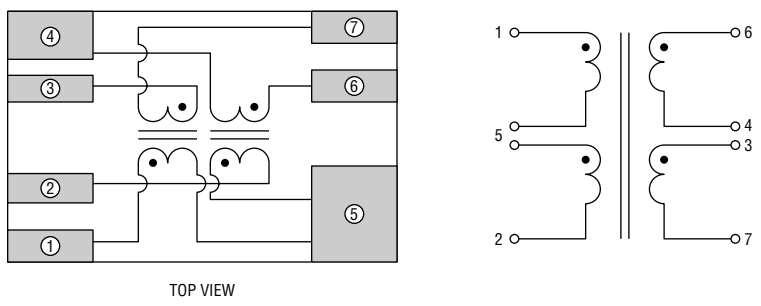
Hi-Pot (Pin 1 to 6, short 3-4)
 1500 VAC, 60 sec.

Operating Temperature -40 to +85 °C

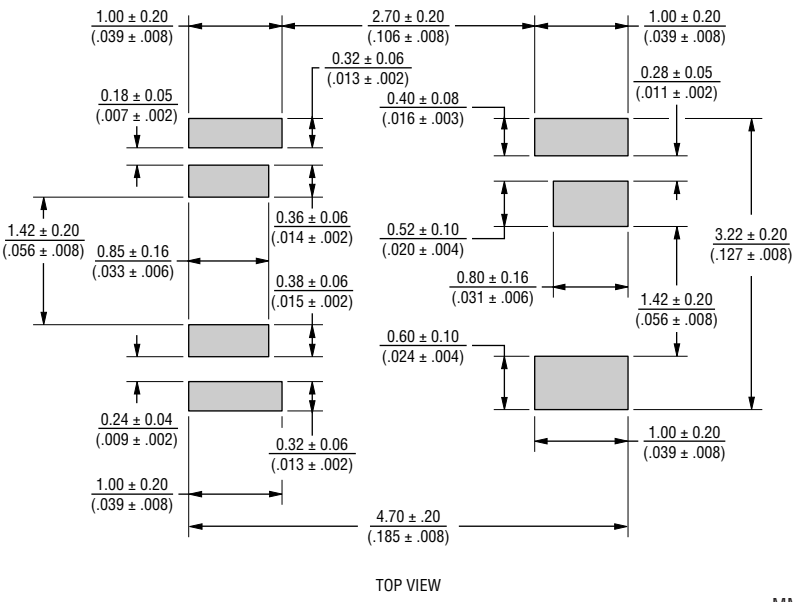
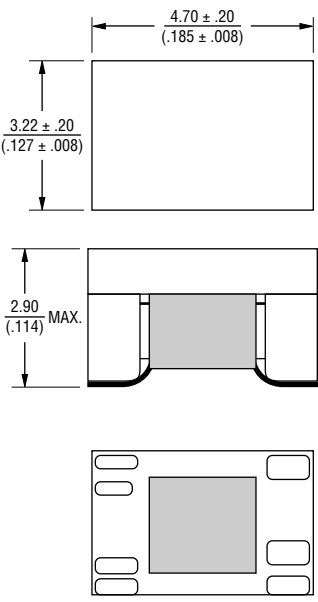
Storage Temperature -40 to +85 °C

Packaging 2000 pcs. / reel

Electrical Schematic



Product Dimensions



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



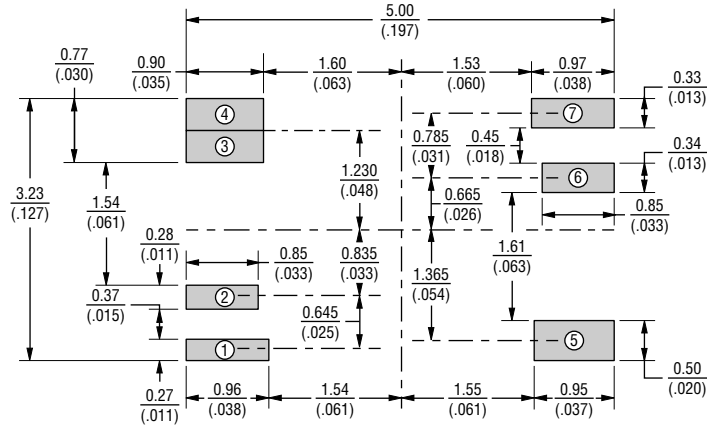
WARNING Cancer and Reproductive Harm - www.P65Warnings.ca.gov

* RoHS Directive 2002/95/EC Jan. 27, 2003 including annex and RoHS Recast 2011/65/EU June 8, 2011.
 Specifications are subject to change without notice.
 Users should verify actual device performance in their specific applications.
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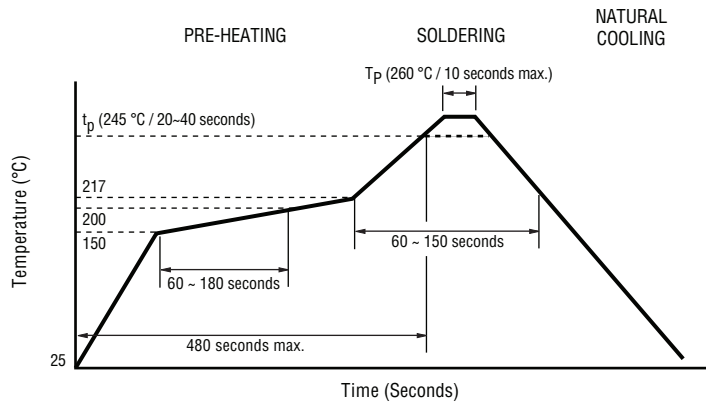


Recommended Pad Layout



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

Soldering Profile



REFLOW TIMES: 3 MAX.

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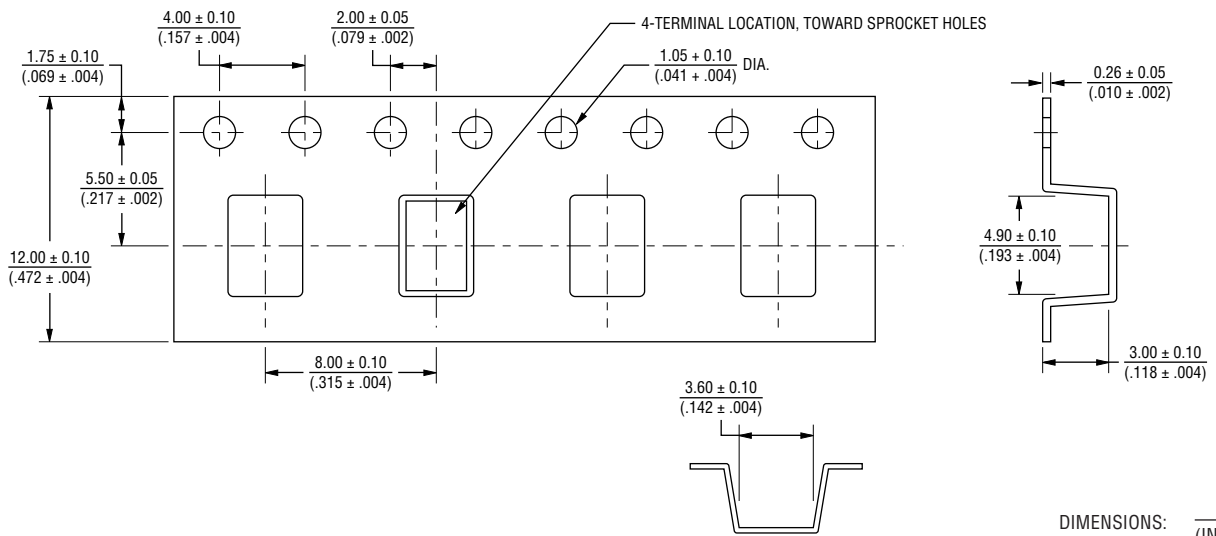
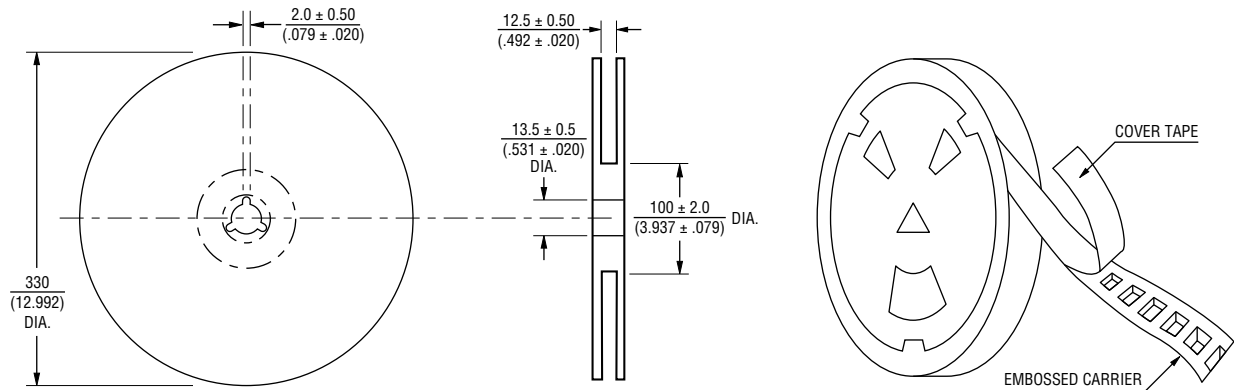
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Packaging Specifications



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

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