



## 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  $\mu$ H min.

#### Inductance – DC Bias

@ 100 kHz, 0.1 V, 15 mA DC

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

..... 200  $\mu$ 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

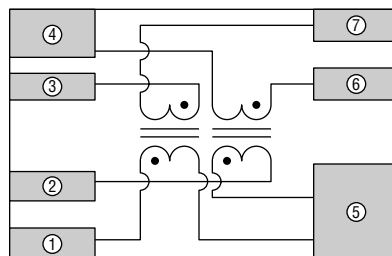
#### Storage Temperature.....

-40 to +85 °C

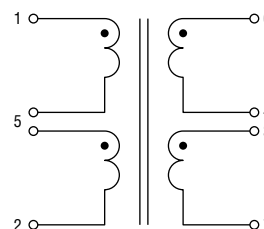
#### Packaging.....

2000 pcs. / reel

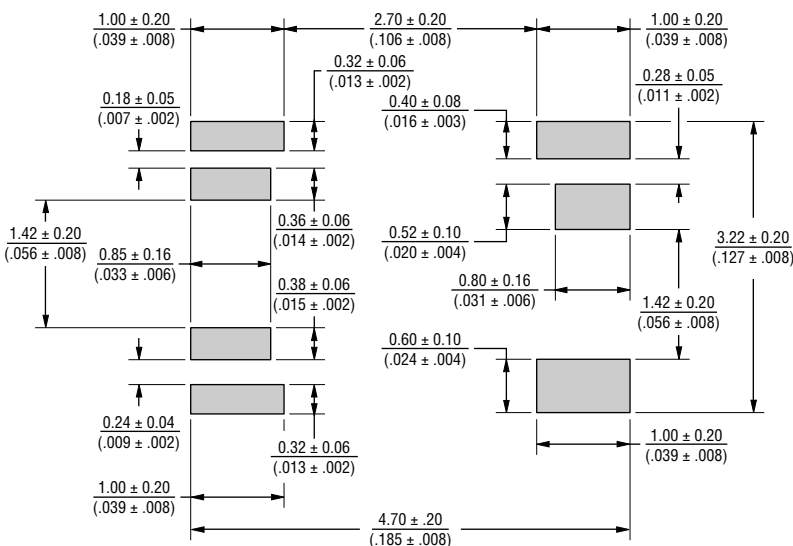
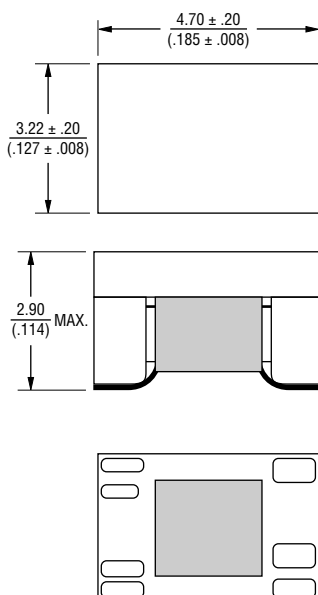
### Electrical Schematic



TOP VIEW



### Product Dimensions



TOP VIEW

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



**WARNING Cancer and Reproductive Harm - [www.P65Warnings.ca.gov](http://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.

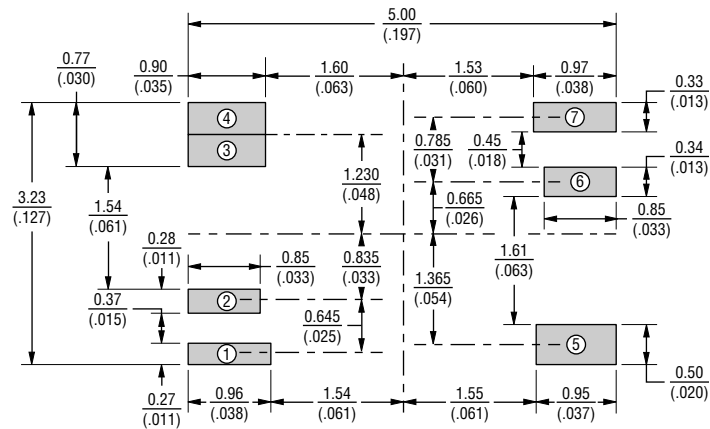
Users should verify actual device performance in their specific applications.

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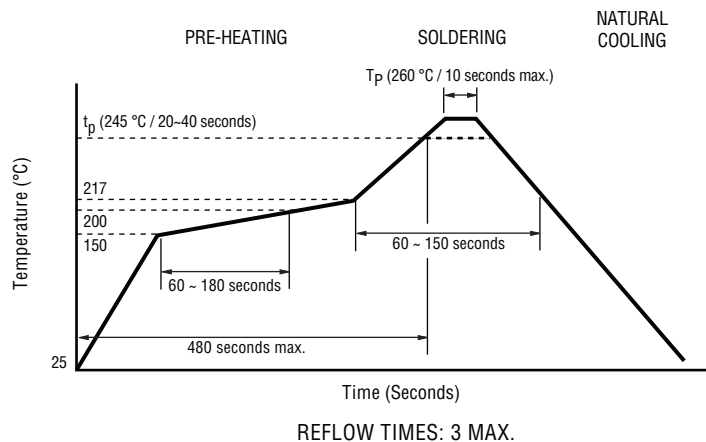
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## Recommended Pad Layout



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

## Soldering Profile



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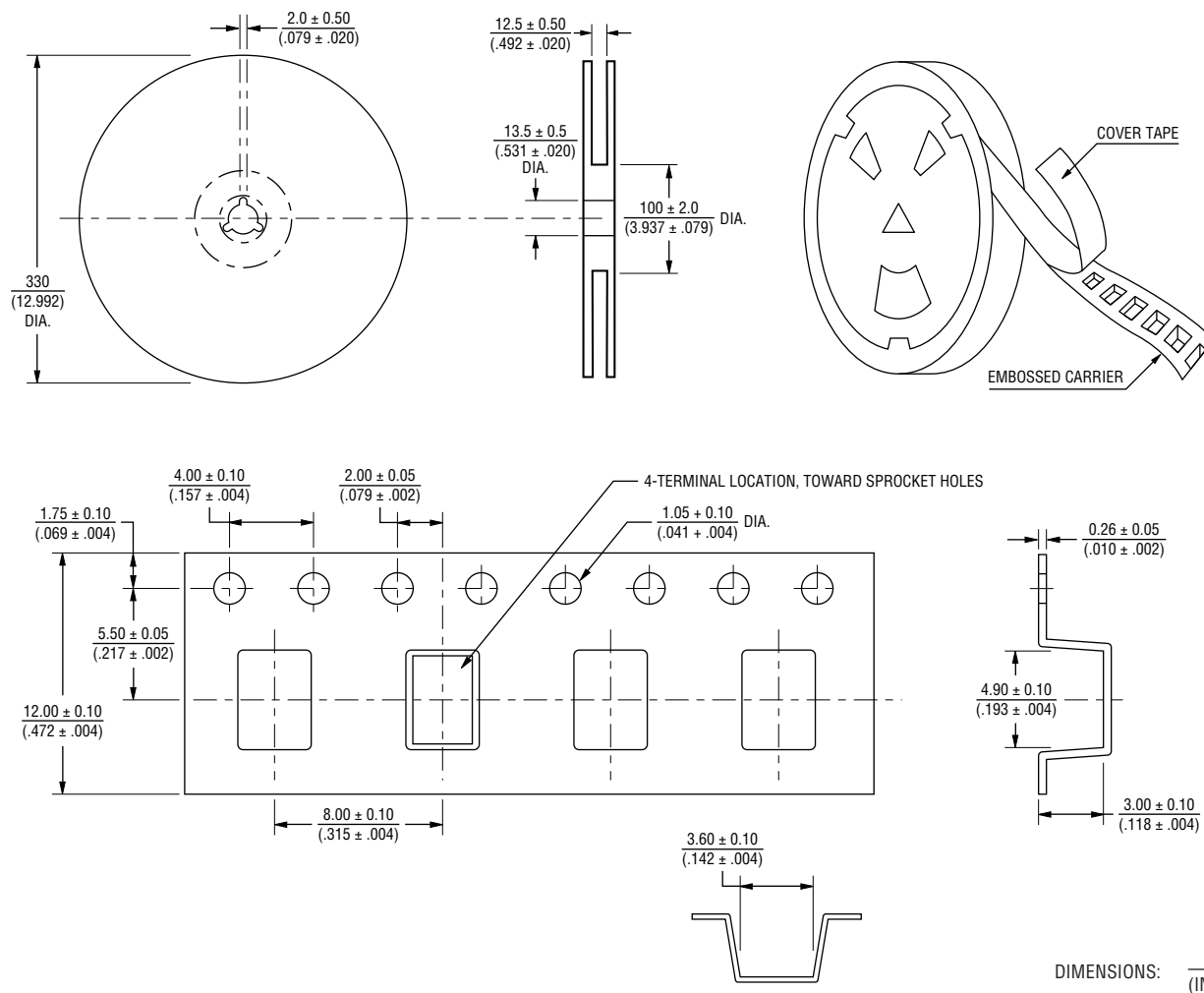
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## Packaging Specifications



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