



Features

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

SM453229-381N7Y - 10/100/1000 Base-T Chip LAN Transformer

Electrical Specifications at 25 °C

Inductance

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

..... 380 μ H min.

Inductance – DC Bias

@ 100 kHz, 0.1 V, 8 mA DC
(Pin 1-2 & 3-4 / short 6-7)

..... 350 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.

Pulse Voltage.....

2400 V, 1.2/50 μ S

Operating Temperature.....

-40 to +85 °C

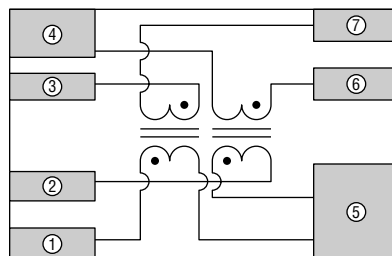
Storage Temperature.....

-40 to +85 °C

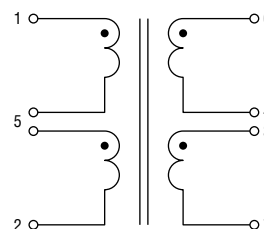
Packaging.....

2000 pcs. / reel

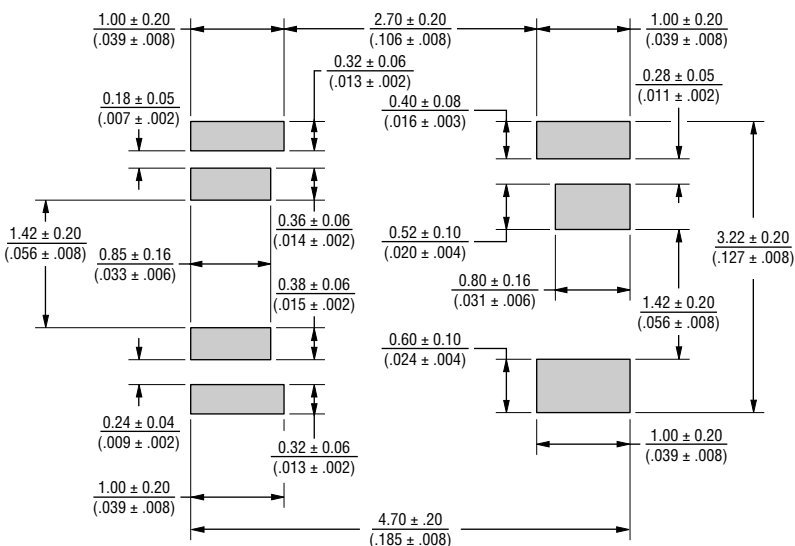
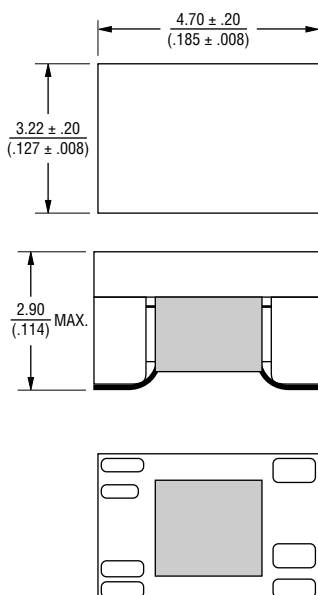
Electrical Schematic



TOP VIEW



Product Dimensions



TOP VIEW

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



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

* 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.

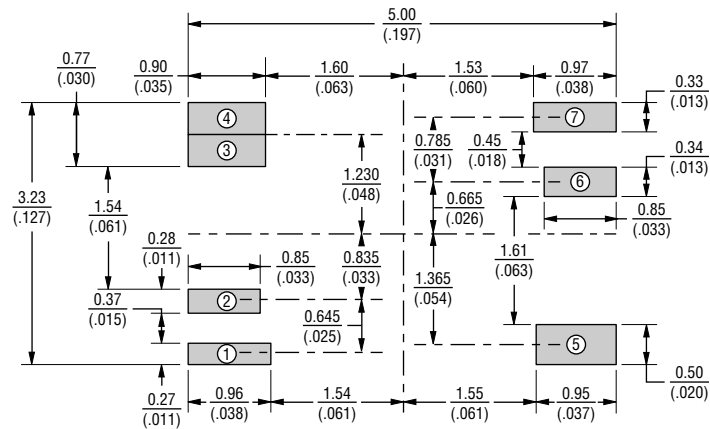
Users should verify actual device performance in their specific applications.

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SM453229-3811N7Y - 10/100/1000 Base-T Chip LAN Transformer

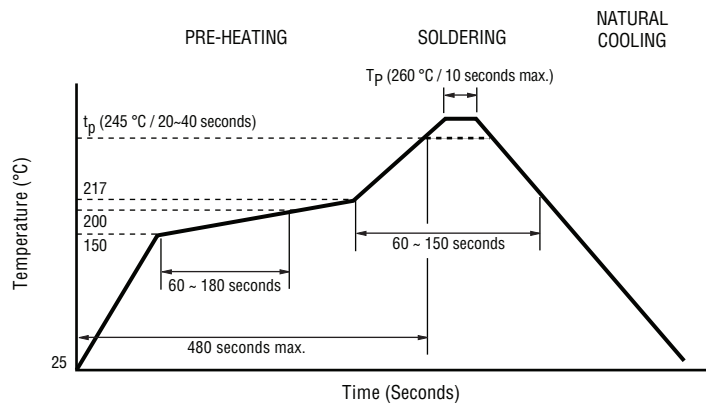
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Recommended Pad Layout



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

Soldering Profile



REFLOW TIMES: 3 MAX.

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