

#### **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 & 6-7 / short 3-4)

.......380 μH min.

Inductance – DC Bias

@ 100 kHz, 0.1 V, 8 mA DC

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

350 *µ*H min.

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 (1111 1 to 0, short 3-4)

Pulse Voltage............ 2400 V, 1.2/50 µS Operating Temperature.....-40 to +85 °C

### **Additional Information**

Click these links for more information:



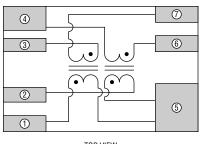


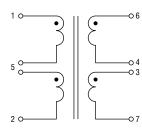






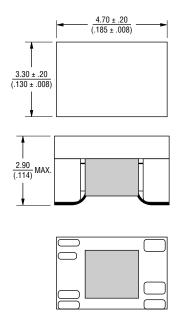
Electrical Schematic

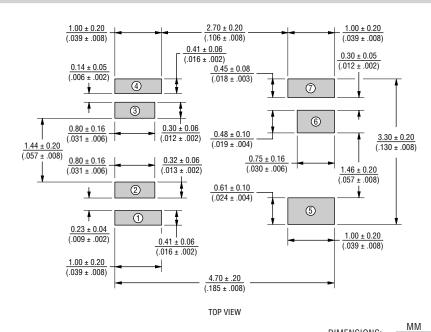




TOP VIEW

#### **Product Dimensions**



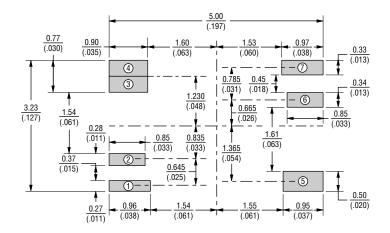


DIMENSIONS:  $\frac{MM}{(INCHES)}$ 



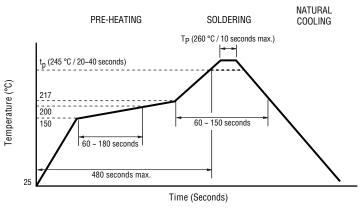
WARNING Cancer and Reproductive Harm - www.P65Warnings.ca.gov

### **Recommended Pad Layout**



MMDIMENSIONS: (INCHES)

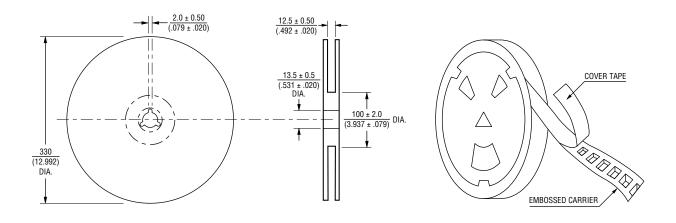
### **Soldering Profile**

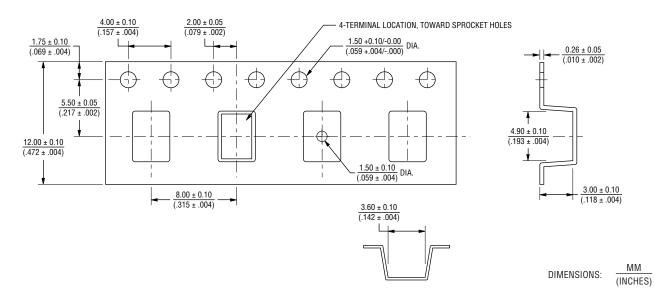


REFLOW TIMES: 3 MAX.

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#### **Packaging Specifications**





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REV. 02/22

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