**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*

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**Electrical Specifications at 25 °C**

**Inductance**

@ 100 kHz, 0.1 V, 0 mADC

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

........................................230 µH min.

**Inductance – DC Bias**

@ 100 kHz, 0.1 V, 15 mA DC

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

........................................200 µH 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 VAC, 60 sec.

**Operating Temperature**...........-40 to +85 °C

**Storage Temperature**.............-40 to +85 °C

**Packaging**........................2000 pcs. / reel

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**Additional Information**

Click these links for more information:

- [PRODUCT](#)
- [TECHNICAL LIBRARY](#)
- [INVENTORY](#)
- [SAMPLES](#)
- [CONTACT](#)

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**Electrical Schematic**

[TOP VIEW](#)

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**Product Dimensions**

![Dimensions Diagram](#)

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

Specifications are subject to change without notice.
Users should verify actual device performance in their specific applications.
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SM453229-231N7Y - 10/100/1000 Base-T PoE+ Chip LAN Transformer

Recommended Pad Layout

Soldering Profile

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Packaging Specifications

**DIMENSIONS:**

<table>
<thead>
<tr>
<th>Measurement</th>
<th>Value</th>
<th>Note</th>
</tr>
</thead>
<tbody>
<tr>
<td>DIA.</td>
<td>330</td>
<td>(12.992)</td>
</tr>
<tr>
<td>2.0 ± 0.50</td>
<td>(0.079 ± 0.020)</td>
<td></td>
</tr>
<tr>
<td>12.5 ± 0.50</td>
<td>(0.492 ± 0.020)</td>
<td></td>
</tr>
<tr>
<td>13.5 ± 0.5</td>
<td>(0.531 ± 0.020)</td>
<td></td>
</tr>
<tr>
<td>100 ± 2.0</td>
<td>(3.937 ± 0.079)</td>
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<tr>
<td>12.00 ± 0.10</td>
<td>(0.472 ± 0.004)</td>
<td></td>
</tr>
<tr>
<td>4.00 ± 0.10</td>
<td>(0.157 ± 0.004)</td>
<td></td>
</tr>
<tr>
<td>2.00 ± 0.05</td>
<td>(0.079 ± 0.002)</td>
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<tr>
<td>1.75 ± 0.10</td>
<td>(0.069 ± 0.004)</td>
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<tr>
<td>5.50 ± 0.05</td>
<td>(0.217 ± 0.002)</td>
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<tr>
<td>1.50 ± 0.10</td>
<td>(0.059 ± 0.004)</td>
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<tr>
<td>4.90 ± 0.10</td>
<td>(0.193 ± 0.004)</td>
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<tr>
<td>3.60 ± 0.10</td>
<td>(0.142 ± 0.004)</td>
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<tr>
<td>0.26 ± 0.05</td>
<td>(0.010 ± 0.002)</td>
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<tr>
<td>3.00 ± 0.10</td>
<td>(0.118 ± 0.004)</td>
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<tr>
<td>1.50 ± 0.10</td>
<td>(0.059 ± 0.004)</td>
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<tr>
<td>4-TERMINAL LOCATION, TOWARD SPROCKET HOLES</td>
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<tr>
<td>DIMENSIONS:</td>
<td>MM (INCHES)</td>
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</table>

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Asia-Pacific: Tel: +886-2 2562-4117 • Email: asiacus@bourns.com
EMEA: Tel: +36 88 885 877 • Email: eurocus@bourns.com
The Americas: Tel: +1-951 781-5500 • Email: americus@bourns.com
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