Features

- IEEE 802.3 Ethernet compatible
- Compatible with 10G BASE-T
- Discrete transformers and common mode chokes for flexible PCB layout
- Pairing common mode choke SRF2012-900YA for EMI reduction
- Expanded temperature range: -40 to +85 °C
- RoHS compliant* and halogen free**

Product Dimensions

Terminal Dimensions – Top View

Additional Information

Click these links for more information:

PRODUCT  TECHNICAL  INVENTORY  SAMPLES  CONTACT

Electrical Specifications @ 25 °C

Inductance (Pin 1-2 & 6-7 / short 3-4) 120 µH min. @ 100 kHz, 0.1 V, 0 mA

Turns Ratio

Pin 1-2 : 6-7 / short 3-4 : 1:1 ± 3 %

Insertion Loss (Pin 1-2)

1-500 MHz: -2.0 dB Typ. -3.0 dB max.

Capacitance (Pin 3-5 / short 3-4) 21 pF Typ.

Hi-Pot (Pin 1-6, short 3-4) 1500 Vac, 60 s

Operating Temperature: -40 °C to +85 °C

Storage Temperature: -40 °C to +85 °C

Packaging Specifications

Tape & Reel 2000 pcs./reel

How To Order

SM453230 - 121 - N7Y

Model

Packaging 121 = Inductance code

Termination N7 = Termination code

Tolerance Y = Tolerance code

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

** Bourns considers a product to be “halogen free” if (a) the Bromine (Br) content is 900 ppm or less; (b) the Chlorine (Cl) content is 900 ppm or less; and (c) the total Bromine (Br) and Chlorine (Cl) content is 1500 ppm or less.

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SM453230-121N7Y - 10 GbE Chip LAN Transformer

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Recommended Layout

Electrical Schematic

Solder Profile

Solder Paste Stencil Aperture Recommendation

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### Packaging Specifications

**DIMENSIONS:**

<table>
<thead>
<tr>
<th>Dimension</th>
<th>Value 1</th>
<th>Tolerance</th>
<th>Value 2</th>
<th>Tolerance</th>
</tr>
</thead>
<tbody>
<tr>
<td>COVER TAPE</td>
<td>12.5 ± 0.5</td>
<td>(0.492 ± 0.020)</td>
<td></td>
<td></td>
</tr>
<tr>
<td>EMBOSSED CARRIER</td>
<td>12.5 ± 0.5</td>
<td>(0.492 ± 0.020)</td>
<td></td>
<td></td>
</tr>
<tr>
<td>PIN 1</td>
<td>3.60 ± 0.10</td>
<td>(0.142 ± 0.004)</td>
<td></td>
<td></td>
</tr>
<tr>
<td>USER DIRECTION OF FEED</td>
<td>4.90 ± 0.10</td>
<td>(0.193 ± 0.004)</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

**QTY:** 2000 PCS. PER REEL

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