**Features**
- IEEE 802.3 Ethernet compatible
- Compatible with 1G/2.5G/5G BASE-T
- Discrete transformers and common mode chokes for flexible PCB layout
- Pairing common mode choke SRF2012A-801Y for EMI reduction
- Expanded temperature range: -40 to +85 °C
- RoHS compliant* and halogen free**

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**Specifications**

**Electrical Specifications @ 25 °C**
- Inductance (Pin 1-2 & 6-7 / short 3-4): 180 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): 1-100 MHz................. -1.0 dB max.
- Hi-Pot (Pin 1 to 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**

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<th>Model</th>
<th>SM453230-181-N7Y</th>
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**Additional Information**

Click these links for more information:
- **PRODUCT**
- **TECHNICAL LIBRARY**
- **INVENTORY**
- **SAMPLES**
- **CONTACT**

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

* RoHS Directive 2015/863, Mar 31, 2015 and Annex. ** 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. Specifications are subject to change without notice. Users should verify actual device performance in their specific applications. The products described herein and this document are subject to specific legal disclaimers as set forth on the last page of this document, and at [www.bourns.com/docs/legal/disclaimer.pdf](http://www.bourns.com/docs/legal/disclaimer.pdf).
SM453230-181N7Y - 1 / 2.5 / 5 GbE Chip LAN Transformer

Recommended Layout

Electrical Schematic
Top View

Solder Profile

Solder Paste Stencil Aperture Recommendation

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