SM353230-181N7Y - 1 / 2.5 / 5 GbE Chip LAN Transformer

- IEEE 802.3 Ethernet compatible
- Compatible with 1G/2.5G/5G BASE-T
- Small size: 3.5 x 3.2 x 2.9 mm
- 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**
- AEC-Q200 compliant

Features

- RoHS COMPLIANT
- Halogen Free
- AEC APPROVED

Electrical Specifications @ 25 °C

Inductance (Pin 1-2 & 6-7 / short 3-4)
0.180 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.

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

Product Dimensions

Terminal Dimensions – Top View

How To Order

SM353230 - 181 - N7Y

Model

Packaging

181 = Inductance code

Termination

N7 = Termination code

Tolerance

Y = Tolerance code

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DIMENSIONS: MM (INCHES)

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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Recommended Layout

Electrical Schematic

Solder Profile

Solder Paste Stencil Aperture Recommendation

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Packaging Specifications

DIMENSIONS: MM (INCHES)

QTY: 2000 PCS. PER REEL
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