

NEW PRODUCT RELEASE

TRANSFORMERS

ADVANCE NOTICE



Bourns Releases New Gigabit Ethernet Chip LAN Transformers

Model SM353230-181N7Y, SM453230-121N7Y and SM453230-181N7Y

Riverside, California – TO BE RELEASED JANUARY 11, 2021 – Bourns Magnetics Product Line is releasing the Model SM353230-181N7Y, SM453230-121N7Y and SM453230-181N7Y Gigabit Ethernet Chip LAN 1G/2.5G/5G and 10G Base-T Transformers.

Unlike traditional LAN magnetics built with multiple toroidal core transformers and common mode chokes in a single module, a Chip LAN Transformer is a discrete, center-tapped component wound on a drum core and capped with a ferrite plate to emulate the result of the close magnetic path of a toroid core. Bourns has paired a common mode chip inductor with a Chip LAN Transformer to provide EMI suppression. The discrete transformer / common mode chip inductor arrangement offers a high degree of flexibility in a PCB layout.

The Model SM353230-181N7Y, SM453230-121N7Y and SM453230-181N7Y Gigabit Ethernet Chip LAN Transformers are IEEE 802.3 Ethernet compatible with an operating temperature range of -40 to +85 °C. They are ideal for use in LAN interfaces for a variety of high-speed telecommunication and network devices.

Model	Dimension	Bit Rate	Pairing Common Mode Chip Inductor
SM353230-181N7Y	3.5 x 3.2 x 2.9 mm	1G / 2.5G / 5G	SRF2012A-801Y
SM453230-181N7Y	4.7 x 3.22 x 2.9 mm	1G / 2.5G / 5G	SRF2012A-801Y
SM453230-121N7Y	4.7 x 3.22 x 2.9 mm	1G / 2.5G / 5G / 10G	SRF2012-900YA

For additional details on Bourns® transformers, visit the Bourns website at bourns.com/products/magneticproducts/transformers-signal. Should you have any questions, contact Bourns Customer Service/Inside Sales.

Features

- IEEE 802.3 ethernet compatible
- Compatible with 1G/2.5G/5G/10G BASE-T
- Discrete transformers and common mode chokes for flexible PCB layout
- Pairs a common mode choke for EMI suppression
- Expanded temperature range: -40 to +85 °C
- RoHS compliant* and halogen free**

Applications

- High speed telecommunication and network devices

* 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.

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