



Bourns Releases Gigabit Ethernet Chip LAN Transformer Modules

Model SM42002EL, SM42P01EL, SM43001EL and SM43P01EL

Riverside, California – January 13, 2021 – Bourns Magnetics Product Line is introducing the Model [SM42002EL](#), [SM42P01EL](#), [SM43001EL](#) and [SM43P01EL](#) Gigabit Ethernet Chip LAN 1G/2.5G/5G and 10G BASE-T Transformer Modules with PoE+ available.

Each transformer module is constructed with four discrete chip LAN transformers and four common mode chokes assembled on a PCB with a ferrous metal shield which offers customers a quick and simple assembly solution. These modules are pin-to-pin compatible with the traditional potted case LAN transformer and offer a lower profile and superior coplanarity. With a common mode choke paired with each transformer, the module offers a high degree of attenuation for EMI suppression.

These chip LAN transformer modules are compliant with IEEE 802.3 and are ideal for use in LAN interfaces for a variety of high-speed telecommunication and network devices.

Part Number	Size (mm)	Gigabit Rate	PoE+	Operating Temperature Range
SM42002EL	17.53 x 14.6 x 4.5	2.5	No	0 to +85 °C
SM42P01EL	16.5 x 10.3 x 4.1	1 / 2.5 / 5	Yes	-40 to +85 °C
SM43001EL	16.5 x 10.3 x 4.1	10	No	0 to +85 °C
SM43P01EL	16.5 x 10.3 x 4.1	10	Yes	0 to +85 °C

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Features

- IEEE 802.3 Ethernet compatible
- Compatible with 1G/2.5G/5G/10G BASE-T
- PoE+ available for some models
- Common mode choke for EMI reduction
- Superior coplanarity
- RoHS compliant* and halogen free**

Applications

- High-speed telecommunication and network devices

For additional details on Bourns transformers, visit the Bourns website at www.bourns.com/products/magnetic-products/transformers-signal.

If you have any questions or need additional information, please feel free to contact [Customer Service/Inside Sales](#).

* 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.