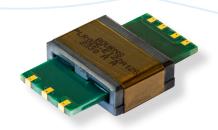


NEW PRODUCT RELEASE MAGNETICS



Bourns Releases New Planar Transformers Model PLR Series

Riverside, California – January 8, 2024 – Bourns Custom Magnetics Product Line is pleased to introduce the new Model PLR Series Planar Transformer Series. These new planar transformers are ideal for low profile, 25 watt PoE applications requiring a DC-DC transformer.

The new Model PLR Series Planar Transformers are surface mount forward converter transformers that provide 25 W power with a low maximum leakage inductance of 0.216 µH. Output voltages are 5 V at 5 A or 12 V at 2.1 A, and the withstand Hi-Pot rating is 1500 VDC. The operating temperature range is from -40 °C to +125 °C and the series is RoHS compliant*.

The Bourns® Model PLR Series is suitable to be used in various applications such as PoE applications, remote microcomputer powering applications, industrial power systems, Switched-Mode Power Supplies (SMPS), LED lighting, and other forward converter transformer applications.

Bourns Part Number	Primary Inductance ¹ (6-7) Min. (µH)	Leakage Inductance ¹ (6-7) w/ (1,3,4,5) shorted Max. (µH)	DCR Max. (mΩ)			Turns Ratio @ 20 kHz, 1 V	Hi-Pot (Pri-Sec) Ref.	Hi-Pot (Coil-Core) Ref.	
			(6-7)	(4-5)	(1-3)	(NP1:NP2:NS)	@ 1 sec	c./3 mA	Main Output
PLR025-EI22A05S	85	216	120	450	11.5	5:5:2	1500 VDC	750 VDC	5 V / 5 A
PLR025-EI22A12S			140	510	90	5:5:5			12 V / 2.1 A

Note:

~ Continued ~

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^{1.} Measuring conditions 250 kHz, 1 V



Samples and production quantities are now available.

For additional details on Bourns® Planar Transformers, visit the Bourns website at www.bourns.com/products/ magnetic-products/transformers-planar.

If you have questions or need additional information, please feel free to contact <u>Bourns Customer Service/</u><u>Inside Sales.</u>

Features

- Low leakage inductance from 0.216 μH max.
- Low height profile
- DC-DC transformer
- Surface mount
- Operating temperature: -40 °C to +125 °C
- RoHS compliant*

Applications

- Industrial power systems
- Switched-Mode Power Supplies (SMPS)
- LED lighting
- Battery Management Systems (BMS)
- Forward transformer for PoE applications

^{*} RoHS Directive 2015/863, Mar 31, 2015 and Annex.