



## Bourns Releases Industrial Push-Pull Isolation Transformer

### *Model PAD00x-T764 Series*

Riverside, California – September 15, 2021 – The Bourns Custom Magnetics Product Line is introducing the new [Model PAD00x-T764 Push-Pull Isolation Transformer Series](#). The Model PAD00x-T764 series are low profile, small footprint isolation transformers, with a primary inductance of 475  $\mu\text{H}$ , maximum 11 V- $\mu\text{S}$ , 400 VDC continuous operation, low DC resistance of 550~800  $\text{m}\Omega$  maximum, and an operating temperature range of  $-40\text{ }^{\circ}\text{C}$  to  $+125\text{ }^{\circ}\text{C}$ .

Each transformer in the series is ideal for an isolated RS-485/RS-232 power supply. In addition, the isolation transformers are ideal for any serial communication including CAN, RS-485, RS-422, RS-232, SPI, I<sup>2</sup>C and low powered LAN. The transformers operate in the push-pull configuration and they work well with many controllers including the TI SN6501 and SN6505, the Maxim MAX253 and MAX845, Analog Devices ADM2485 and other equivalent drivers. These models are ideal for use in various applications, including industrial automation, AC motor drives, smart metering, solar inverters, and more.

The Model PAD00x-T764 Series Push-Pull Isolation Transformers are designed for a 400 VDC continuous working voltage and comply with IEC 62368. They are RoHS\* and REACH compliant.

Bourns Part Number	Primary Inductance	Turns Ratio	Volt Microsecond	DCR Max. ( $\text{m}\Omega$ )	DCR Max. ( $\text{m}\Omega$ )	Isolation Voltage ( $\text{V}_{\text{RMS}}$ )
	@ 100 kHz/0.1 V $\pm 10\%$ ( $\mu\text{H}$ )		Max. (V- $\mu\text{S}$ )			
	(1-3)	(1-3 : (6-4))	(1-3)	(1-3)	(6-4)	(1-3) to (6-4)
PAD001-T764117S	475	1:1.7	11	650	900	3100
PAD001-T764120S	475	1:2	11	650	1000	3100
PAD002-T764111S	475	1:1.1	11	650	700	3100
PAD002-T764113S	475	1:1.3	11	650	800	3100

\* RoHS Directive 2015/863, Mar 31, 2015 and Annex.

Samples and production quantities are now available.

For additional details on Bourns® transformers, visit the Bourns website at [www.bourns.com/products/magnetic-products/transformers-power](http://www.bourns.com/products/magnetic-products/transformers-power). Should you have any questions, contact [Bourns Customer Service/Inside Sales](#).

### Features

- Low profile and small size
- Designed to comply with IEC 62368
- Functional insulation for 400 Vrms continuous operation voltage
- Operating temperature: -40 °C to +125 °C
- RoHS compliant\*

### Applications

- Isolated RS-485/RS-232 power supplies
- Industrial automation
- AC motor drives
- Smart metering
- Solar inverters

\* RoHS Directive 2015/863, Mar 31, 2015 and Annex.