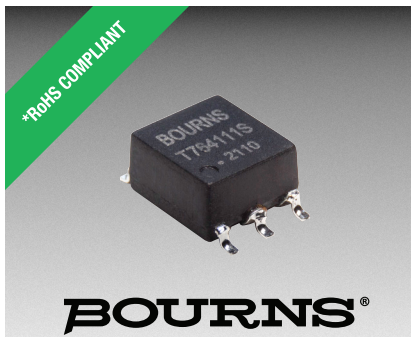




Features

- 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

PAD00x-T764 Series Push-Pull Isolation Transformer

General Specifications

Operating Temperature.....	-40 °C to +125 °C
Storage Temperature (with packaging).....	-10 °C to +40 °C
Storage Temperature (without packaging).....	-40 °C to +125 °C
Current Rating	350 mArms
HI-POT Pri / Sec.....	3100 VAC / 1 mA / 2 s
Level of Insulation.....	Functional insulation for a working voltage of 400 Vrms per IEC 62368, Material Group III, Pollution Degree 2
Moisture Sensitivity Level.....	1

Additional Information

Click these links for more information:



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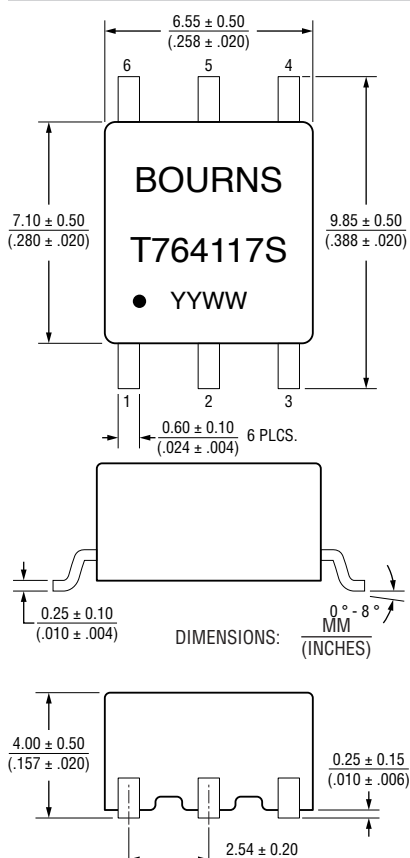


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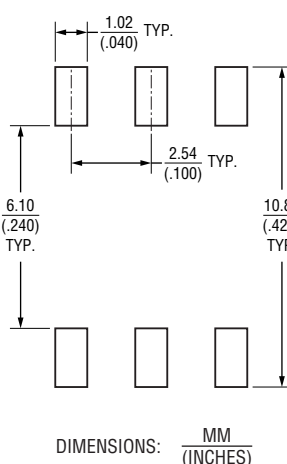
Electrical Specifications @ 25 °C

Bourns Part Number	Primary Inductance @100 kHz / 0.1 V Min. (μH)	Turns Ratio	Volt Microseconds Max. (V-μS)	DCR Max. (mΩ)	DCR Max. (mΩ)	Isolation Voltage (Volts RMS)
	(1-3)	(1-3) : (6-4)	(1-3)	(1-3)	(6-4)	(1-3) : (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

Product Dimensions



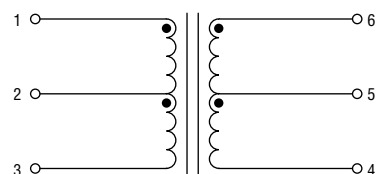
Recommended Layout



Materials

Core..... Ferrite
Wire..... Copper
Case..... DAP
Terminal Finish..... Sn
Packaging..... 800 pcs. per 13-inch reel

Electrical Schematic



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

Specifications are subject to change without notice.

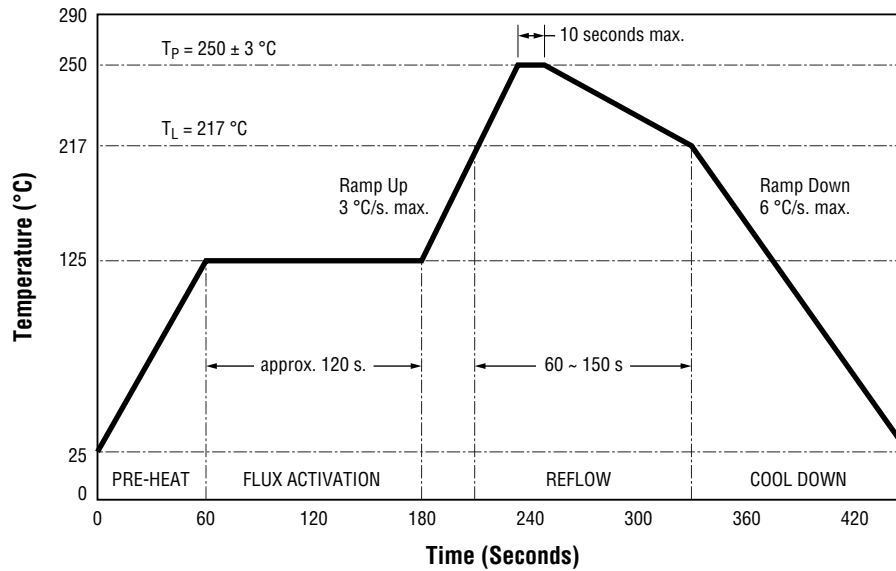
Users should verify actual device performance in their specific applications.

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PAD00x-T764 Series Push-Pull Isolation Transformer

BOURNS®

Soldering Profile



Time within 5 °C of actual Peak Temperature (t_p)	20 ~ 40 s.
T_s min.	150 °C
T_s max.	200 °C
T_s min. to T_s max.	60 - 180 s.
25 °C to Peak Temperature	8 minutes max.

How to Order

PAD 001 - T 764 117 S

Model	_____
PAD = Push-pull Isolation Transformer	_____
Power Rating	_____
001 = 1 W	_____
Core	_____
T = Toroid	_____
Dimension	_____
764 = 7.10 x 6.55 x 4.0 mm	_____
Turns Ratio	_____
111 = 1 : 1.1	_____
113 = 1 : 1.3	_____
117 = 1 : 1.7	_____
120 = 1 : 2	_____
PCB Type	_____
S = SMD	_____

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Technical drawings of the Bourns T764117S component, showing dimensions in millimeters (mm) and inches (in).

Top View Dimensions:

- Overall width: 16 ± 0.1 mm ($.630 \pm .004$)
- Pin pitch: 2 ± 0.1 mm ($.079 \pm .004$)
- Pin diameter: $1.5 \pm 0.1/-0$ mm ($.059 \pm .004/-0$) DIA.
- Carrier width: 16 ± 0.3 mm ($.630 \pm .012$)
- Carrier pin pitch: $1.5 \pm 0.1/-0$ mm ($.059 \pm .004/-0$) DIA.
- Carrier pin diameter: $1.5 \pm 0.1/-0$ mm ($.059 \pm .004/-0$) DIA.
- Carrier pin offset: 7.5 ± 0.1 mm ($.295 \pm .004$)
- Carrier pin diameter: 1.75 ± 0.1 mm ($.069 \pm .004$)

Side View Dimensions:

- Carrier height: 6.55 ± 0.1 mm ($.258 \pm .004$)
- Carrier angle: 12°

Carrier View Dimensions:

- Carrier width: 330 mm (13)
- Carrier height: 16 mm ($.630$)
- Carrier pin pitch: 16 mm ($.630$)
- Carrier pin diameter: 1.75 ± 0.1 mm ($.069 \pm .004$)
- Carrier pin offset: 7.5 ± 0.1 mm ($.295 \pm .004$)
- Carrier pin diameter: $1.5 \pm 0.1/-0$ mm ($.059 \pm .004/-0$) DIA.
- Carrier pin offset: 10.25 ± 0.1 mm ($.404 \pm .004$)
- Carrier pin diameter: 4.5 ± 0.1 mm ($.177 \pm .004$)
- Carrier pin diameter: 4.75 ± 0.1 mm ($.187 \pm .004$)
- Carrier pin offset: 4.05 ± 0.1 mm ($.159 \pm .004$)
- Carrier angle: 12°

Dimensions: MM (INCHES)

DIMENSIONS: $\frac{\text{MM}}{(\text{INCHES})}$

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