

## 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

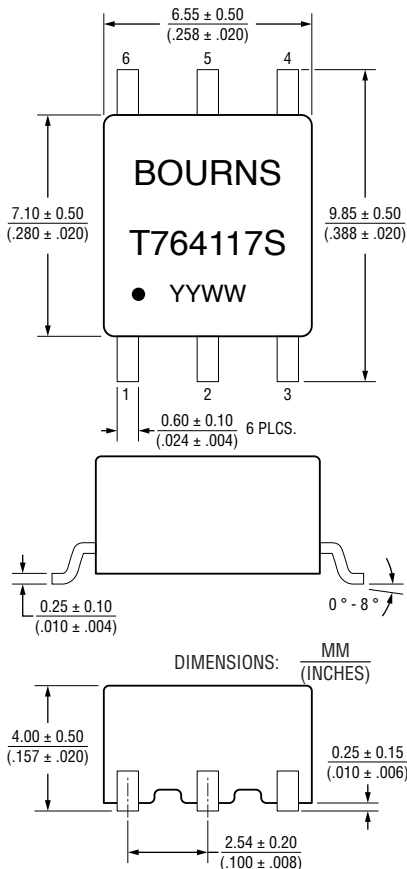
Click these links for more information:



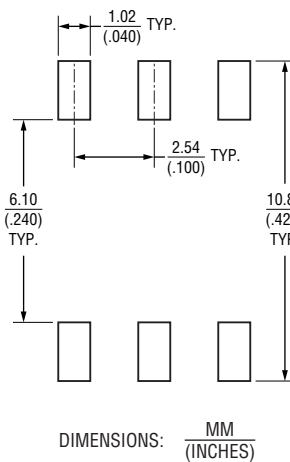
### Electrical Specifications @ 25 °C

Bourns Part Number	Primary Inductance @100 kHz / 0.1 V ±10 % (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



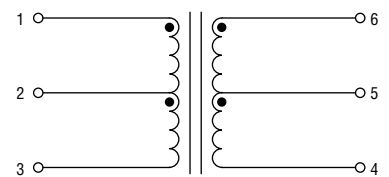
### Recommended Layout



### Materials

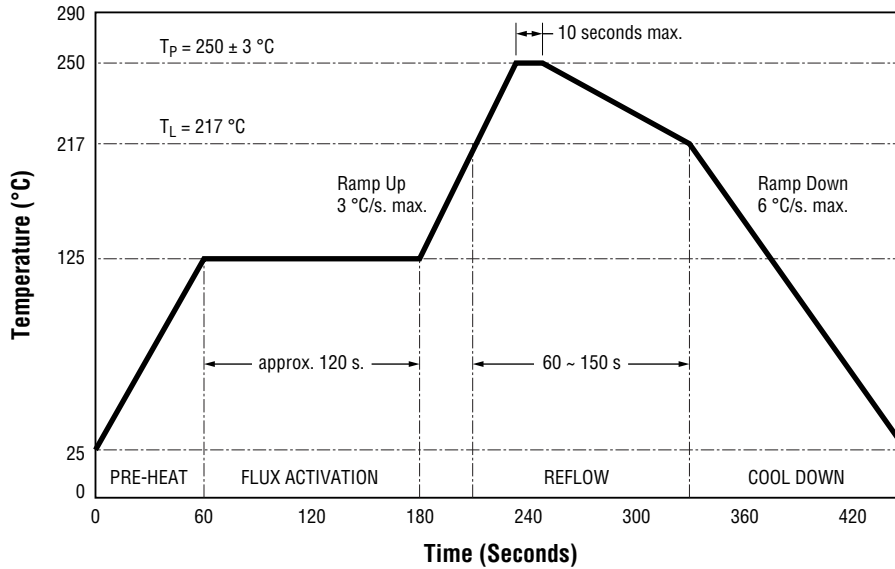
Core..... Ferrite  
 Wire..... Copper  
 Case..... DAP  
 Terminal Finish..... Sn  
 Packaging..... 800 pcs. per 13-inch reel

### 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. The products described herein and this document are subject to specific legal disclaimers as set forth on the last page of this document, and at [www.bourns.com/docs/legal/disclaimer.pdf](http://www.bourns.com/docs/legal/disclaimer.pdf).

**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

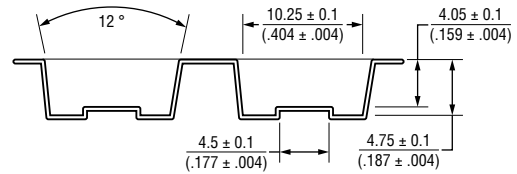
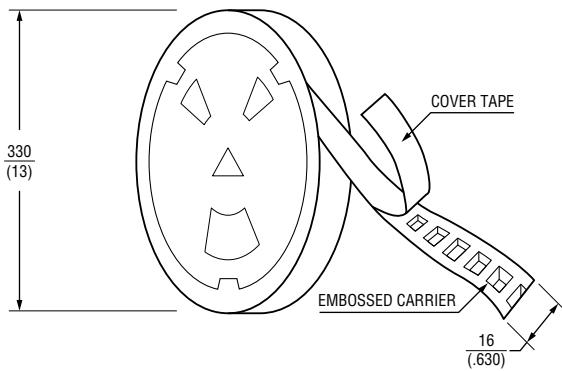
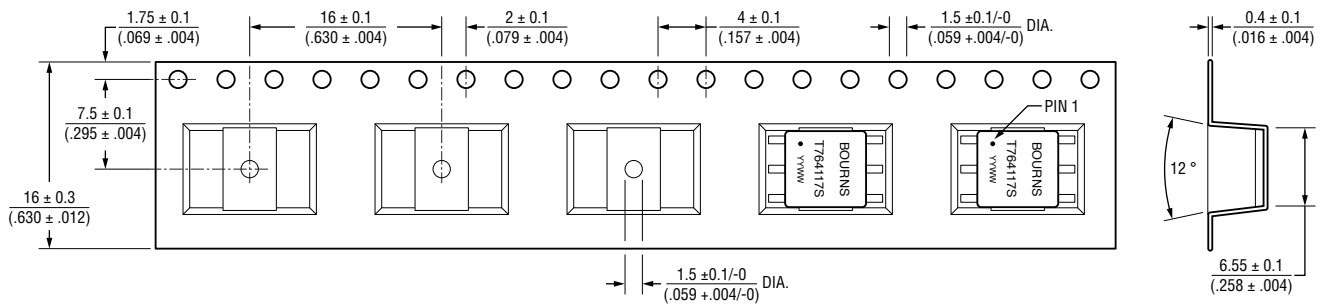
Turns Ratio \_\_\_\_\_  
 111 = 1 : 1.1  
 113 = 1 : 1.3  
 117 = 1 : 1.7  
 120 = 1 : 2

PCB Type \_\_\_\_\_  
 S = SMD

# PAD00x-T764 Series Push-Pull Isolation Transformer

**BOURNS®**

## Packaging Specifications



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

**BOURNS®**

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REV. 12/22

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