

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

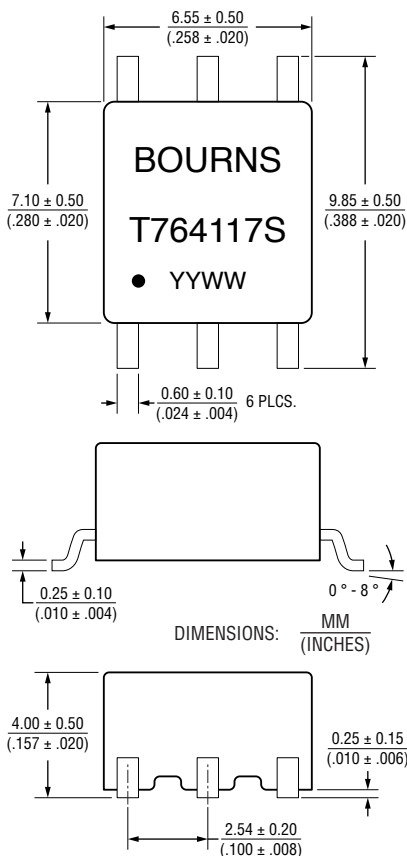
Click these links for more information:



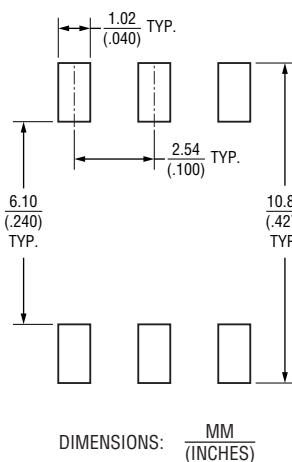
Electrical Specifications @ 25 °C

| 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



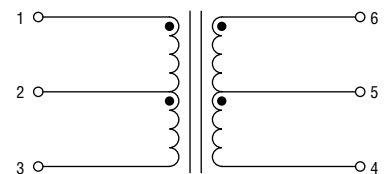
Recommended Layout



Materials

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

Electrical Schematic

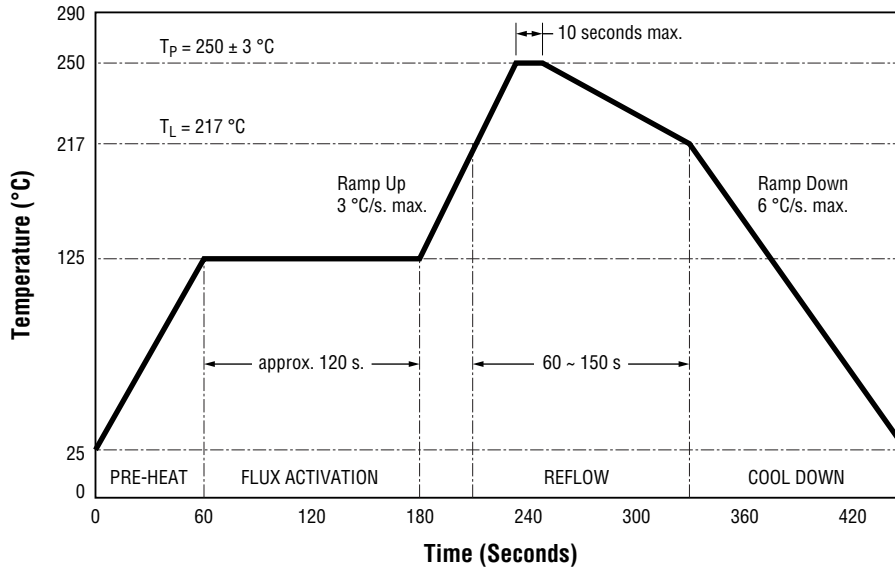


* RoHS Directive 2015/863, Mar 31, 2015 and Annex. Specifications are subject to change without notice.

Users should verify actual device performance in their specific applications.

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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

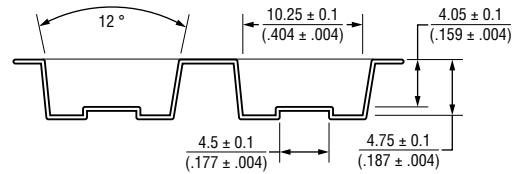
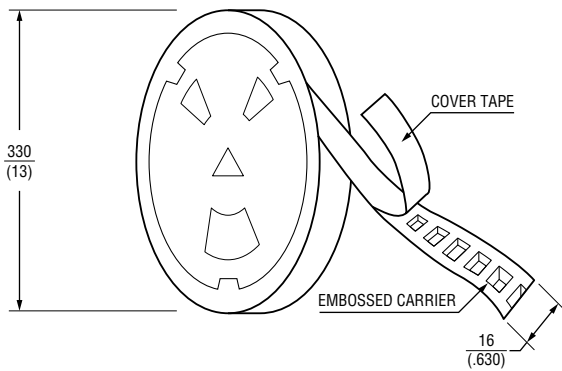
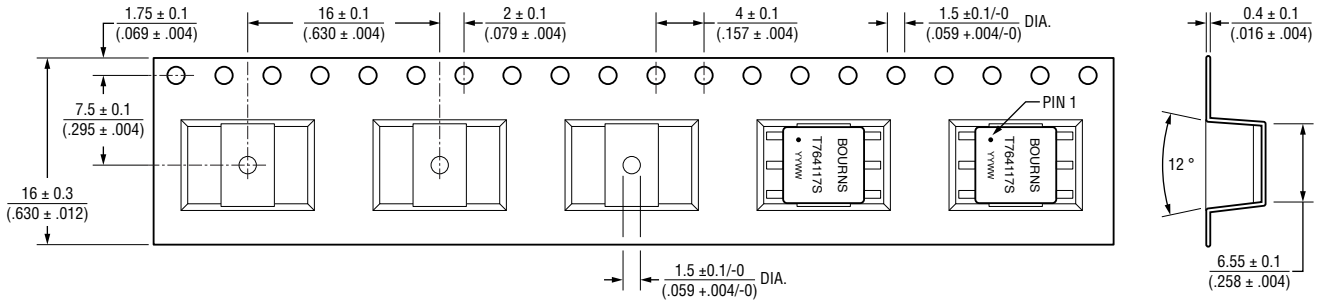
| | |
|---------------------------------------|-------|
| Model _____ | _____ |
| PAD = Push-pull Isolation Transformer | |
| Power Rating _____ | _____ |
| 001 = 1 W | |
| Core _____ | _____ |
| T = Toroid | |
| Dimension _____ | _____ |
| 764 = 7.10 x 6.55 x 4.0 mm | |
| Turns Ratio _____ | _____ |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

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PAD00x-T764 Series Push-Pull Isolation Transformer

BOURNS®

Packaging Specifications



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

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REV. 07/22

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