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

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 mAmps
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

Electrical Specifications @ 25 °C

<table>
<thead>
<tr>
<th>Bourns Part Number</th>
<th>Primary Inductance @100 kHz / 0.1 V ±10 % (µH)</th>
<th>Turns Ratio</th>
<th>Volt Microseconds Max. (V-µS)</th>
<th>DCR Max. (mΩ)</th>
<th>DCR Max. (mΩ)</th>
<th>Isolation Voltage (Volts RMS)</th>
</tr>
</thead>
<tbody>
<tr>
<td>PAD001-T764117S</td>
<td>(1-3) : (6-4)</td>
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<tr>
<td>PAD001-T764120S</td>
<td>475</td>
<td>1:1.7</td>
<td>11</td>
<td>650</td>
<td>900</td>
<td>3100</td>
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<tr>
<td>PAD002-T764111S</td>
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<td>1:2</td>
<td>11</td>
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<td>3100</td>
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<tr>
<td>PAD002-T764113S</td>
<td>475</td>
<td>1:1.1</td>
<td>11</td>
<td>650</td>
<td>700</td>
<td>3100</td>
</tr>
</tbody>
</table>

Product Dimensions

Recommended Layout

Materials

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

Electrical Schematic

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

Model: PAD 001 - T 764 117 S
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

Packaging Specifications

DIMENSIONS:

- EMBOSSED CARRIER
- COVER TAPE
- PIN 1

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