Flyback Transformer  For Texas Instruments  PMP7899 Reference Design

- Developed for Texas Instruments PMP7899 Reference Design for Non-Synchronous Flyback Converter with an Isolated Output
- 8 – 18 V input; 48 V, 1 A output
- Aux winding output 9 V, 20 mA
- 1500 Vrms, one minute primary and aux to secondary isolation (hipot)

Core material  Ferrite
Terminations  RoHS tin-silver (96.5/3.5) over tin over nickel over phosphor bronze. Other terminations available at additional cost.
Weight  25.9 g
Ambient temperature  –40°C to +125°C
Maximum part temperature  +125°C (ambient + temp rise)
Storage temperature  Component: –40°C to +125°C. Tray packaging: –40°C to +80°C
Resistance to soldering heat  Max three 40 second reflows at +260°C, parts cooled to room temperature between cycles
Moisture Sensitivity Level (MSL)  1 (unlimited floor life at <30°C / 85% relative humidity)
Failures in Time (FIT) / Mean Time Between Failures (MTBF)  38 per billion hours / 26,315,789 hours, calculated per Telcordia SR-332
Packaging  24 parts per tray

PCB washing  Tested to MIL-STD-202 Method 215 plus an additional aqueous wash. See Doc787_PCB_Washing.pdf.

<table>
<thead>
<tr>
<th>Part number</th>
<th>Inductance at 0 Adc</th>
<th>Inductance at Ipk</th>
<th>DCR max</th>
<th>Leakage Inductance</th>
<th>Turns ratio</th>
<th>Ipk</th>
<th>Output</th>
</tr>
</thead>
<tbody>
<tr>
<td>NA6264-AL</td>
<td>2.56</td>
<td>2.176</td>
<td>0.0065</td>
<td>0.060</td>
<td>1 : 6</td>
<td>16.5</td>
<td>48 V, 1 A</td>
</tr>
<tr>
<td></td>
<td>±15% (µH)</td>
<td>0.0065 (pins 1 – 3)</td>
<td>0.0065 (pins 2 – 4)</td>
<td>0.130 (pins 5 – 6)</td>
<td>0.110 (pins 11-8)</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

1. Inductance is for the primary with windings connected in parallel, measured at 300 kHz, 0.3 Vrms.
2. Peak primary current drawn at minimum input voltage.
3. Leakage inductance is for the primary with the windings connected in parallel and with the secondary winding shorted.
4. Output is for the secondary. Aux winding output is 9 V, 20 mA.
5. Electrical specifications at 25°C.

Refer to Doc 362 “Soldering Surface Mount Components” before soldering.

Primary windings to be connected on the PC board.

Dimensions are in inches

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