720 W Planar Transformer

For TI 720 W Full Bridge DC/DC Converter

- Developed for Texas Instruments PMP9219 LM5045 Based
  720 W Power Converter
- Designed to operate at 400 kHz with 36 – 75 V input
- 1500 Vrms, one minute isolation from primary to secondary
  windings
- Listed as T2 on Texas Instruments BOM-PMP9219

Core material: Ferrite
Terminations: Matte tin over nickel over brass.
Weight: 53.9 g

Ambient temperature: –40°C to +125°C
Maximum part temperature: +150°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 refloows 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: 16 per tray

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

### Inductance and DCR

<table>
<thead>
<tr>
<th>Part number</th>
<th>Inductance at 0 A</th>
<th>DCR max (mOhms)</th>
<th>Leakage inductance max (µH)</th>
<th>Turns</th>
<th>Output</th>
</tr>
</thead>
<tbody>
<tr>
<td>MA5519-AL</td>
<td>190.8</td>
<td>5.0 1.53 178 178</td>
<td>0.13</td>
<td>6 : 4 : 2 : 2</td>
<td>12 V, 60 A</td>
</tr>
</tbody>
</table>

1. Inductance is measured at 300 kHz, 1.0 Vrms, 0 Adc.
2. Leakage inductance is for the primary, measured with the secondary
   shorted.
3. Electrical specifications at 25°C.

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

Dimensions are in inches/mm

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This product may not be used in medical or high
risk applications without prior Coilcraft approval.
Specification subject to change without notice.
Please check website for latest information.