# 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 refows 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.

## Specifications

<table>
<thead>
<tr>
<th>Part number</th>
<th>Inductance at 0 A(^1) ±30% (µH)</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</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.

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**Dimensions**

- **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 refows 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.

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**MA5519-AL**

- **Recommended Land Pattern**

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Dimensions are in **inches**

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