**SMT Planar Transformer**

For TI UCC2897

(PMP9656 Reference Design)

- Developed for Texas Instruments UCC2897 Active Clamp Forward (PMP9656 reference design)
- Rated for 250 Watts
- Designed to operate at 200 kHz with 48 – 60 Vdc input.
- High efficiency; excellent DCR; very low leakage inductance; 1500 Vrms, one minute primary to secondary isolation.
- Provides 0.009" (0.229 mm) clearance above the seating plane

**Core material** Ferrite

**Terminations** Matte tin over nickel over brass.

**Weight** 26.5 g

**Ambient temperature** –40°C to +85°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** 25 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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**Specifications**

<table>
<thead>
<tr>
<th>Part number</th>
<th>Turns</th>
<th>Primary inductance(^1)</th>
<th>Leakage inductance(^2)</th>
<th>DCR max (mOhms)(^3)</th>
<th>Volt-time product typ(^4) (V(\mu)sec)</th>
<th>Output</th>
</tr>
</thead>
<tbody>
<tr>
<td>RA6992-BL</td>
<td>Pri 8</td>
<td>Sec 4</td>
<td>Aux 4</td>
<td>50</td>
<td>0.25</td>
<td>6.9</td>
</tr>
</tbody>
</table>

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1. Inductance measured on an Agilent/HP 4284 at 200 kHz, 0.5 Vrms, 0 Aadc with windings connected in parallel.
2. Leakage inductance is for the primary with windings connected in parallel, measured at 200 kHz, 0.5 Vrms, 0 Aadc with all secondary pins shorted.
3. DCR for primary is measured with the windings connected in parallel. DCR for secondary is measured between pins 7 and 11.
4. Volt-time product is based on primary windings connected in parallel.
5. Electrical specifications at 25°C.

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

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**Dimensions**

- **Max**: 1.160 (29.46 mm)
- **Min**: 0.004 (0.102 mm)

**Recommended Land Pattern**

- Primary windings to be connected in parallel on the PC board

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