NEW!

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

### Specifications

<table>
<thead>
<tr>
<th>Part number</th>
<th>Primary turns</th>
<th>Sec turns</th>
<th>Aux turns</th>
<th>Primary inductance</th>
<th>Leakage inductance</th>
<th>DCR max (mOhms)</th>
<th>Volt-time product typ. (Vµsec)</th>
<th>Output</th>
</tr>
</thead>
<tbody>
<tr>
<td>RA6992-BL</td>
<td>8</td>
<td>4</td>
<td>4</td>
<td>±20% (µH)</td>
<td>50</td>
<td>0.25</td>
<td>6.9 / 4.2 / 82</td>
<td>206</td>
</tr>
</tbody>
</table>

1. Inductance measured on an Agilent/HP 4284 at 200 kHz, 0.5 Vrms, 0 Adc 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 Adc 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.

### Additional Information

- Recommended Land Pattern:
  - Primary windings to be connected in parallel on the PC board

### Dimensions

- Dot indicates pin 1
- Dot indicates internal code
- Dimensions are in inches/mm

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