SMT Planar Transformer
(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 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)
Packaging: 25 per tray

<table>
<thead>
<tr>
<th>Part number</th>
<th>Turns</th>
<th>Primary inductance ±20% (µH)</th>
<th>Leakage inductance max (µH)</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>Pri 8</td>
<td>4</td>
<td>4</td>
<td>50</td>
<td>0.25</td>
<td>6.9</td>
</tr>
<tr>
<td></td>
<td>Sec 4</td>
<td></td>
<td></td>
<td>4.2</td>
<td></td>
<td>82</td>
</tr>
<tr>
<td></td>
<td>Aux 4</td>
<td></td>
<td></td>
<td>82</td>
<td></td>
<td>206</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
<td>12 V, 21 A</td>
<td></td>
<td></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.