800 W Planar Transformer

• Designed for Texas Instruments PMP6712 Dual-Channel Full-Bridge Converter for PoE Power Sourcing (PSE)
• 38 – 60 V input; 54 V, 15 A output
• 1500 Vrms, one minute isolation from primary to secondary windings
• Listed as T2 and T4 on Texas Instruments BOM-PMP6712
• Insulated bottom surface

Core material Ferrite
Terminations Matte tin over nickel over brass.
Weight 56 g
Ambient temperature –40°C to +125°C
Storage temperature Component: –40°C to +125°C.
Tray packaging: –40°C to +80°C
Maximum part temperature +165°C (Ambient + temperature rise)
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 20 per tray
PCB washing Tested to MIL-STD-202 Method 215 plus an additional aqueous wash. See Doc787_PCB_Washing.pdf.

<table>
<thead>
<tr>
<th>Part number</th>
<th>Inductance at 0 A (^1) (µH)</th>
<th>DCR max (mOhms)</th>
<th>Leakage inductance max (µH)</th>
<th>Turns pri : sec</th>
<th>Output</th>
</tr>
</thead>
<tbody>
<tr>
<td>NA5871-AL</td>
<td>42</td>
<td>1.37 pri 4.4 sec</td>
<td>0.20</td>
<td>3 : 5</td>
<td>54 V, 15 A</td>
</tr>
</tbody>
</table>

1. Inductance is measured at 100 kHz, 0.1 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.