**SMT Planar Transformer**  
For TI UCC2897 12 V/264 W  
Active Clamp Forward

- Developed for Texas Instruments UCC2897 Active Clamp Forward (PMP7376 reference design)
- Designed for 52 – 60 Vdc input; 12 V, 22 A output
- High efficiency; excellent DCR; very low leakage inductance;
- 1500 Vrms, one minute primary to secondary isolation (hipot)

**Core material**  
Ferrite  
**Terminations**  
Matte tin over nickel over brass.

**Weight**  
22.0 g  
**Ambient temperature**  
–40°C to +125°C  
**Maximum part temperature**  
+155°C (ambient + temp rise)  
**Storage temperature**  
Component: –40°C to +155°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)

**Failures in Time (FIT) / Mean Time Between Failures (MTBF)**  
10.06 per billion hours / 9.940E+07 hours, calculated per Telcordia SR-332

**Packaging**  
36 per tray

**PCB washing**  
Tested to MIL-STD-202 Method 215 plus an additional aqueous wash. See Doc787_PCB_Washing.pdf.

**Recommended Land Pattern**

<table>
<thead>
<tr>
<th>Part number</th>
<th>Turns</th>
<th>Primary inductance(^1) ≤20% (μH)</th>
<th>Leakage inductance(^2) max (μH)</th>
<th>DCR max (mOhms)</th>
<th>Volt-time product typ(^3) (V-μsec)</th>
<th>Output</th>
</tr>
</thead>
<tbody>
<tr>
<td>NA5738-DL</td>
<td>Pri 2</td>
<td>100</td>
<td>0.18</td>
<td>4.8 1.7 18</td>
<td>94.5</td>
<td>12 V, 22 A</td>
</tr>
</tbody>
</table>

1. Inductance is for the primary, measured on Agilent/HP 4284A at 200 kHz, 0.5 Vrms, 0.1 Vrms, 0 Adc.  
2. Leakage Inductance is for the primary, measured at 100 kHz, 0.1 Vrms, 0 Adc with secondary pins shorted.
3. Volt-time product is for the primary, between pin 2 and 3.
4. Output of the aux winding is 12 V.  
5. Electrical specifications at 25°C.  
Refer to Doc 362 “Soldering Surface Mount Components” before soldering.

**Dimensions are in inches**

**Note:** Please check our website for latest information.