Flyback Transformer
For Maxim MAX17597
Flyback Configuration

- Mounted on Maxim MAX17597 Evaluation Kit
- 18 V – 36 V primary input
- 24 V, 0.833 A output
- 1500 Vrms, one minute isolation between primary and secondary

Core material Ferrite
Terminations RoHS tin-silver-copper (96.5/3.0/0.5) over tin over nickel over phos bronze. Other terminations available at additional cost.
Weight 13.4 g
Ambient temperature –40°C to +125°C
Maximum part temperature 135°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 refows 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 100 parts 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 DC ( \pm 10% ) (µH)</th>
<th>Inductance at Ipk (µH)</th>
<th>DCR max (Ohms)</th>
<th>Leakage Inductance max (µH)</th>
<th>Turns ratio</th>
<th>Ipk(A)</th>
<th>Output</th>
</tr>
</thead>
<tbody>
<tr>
<td>CU8758-AL</td>
<td>33</td>
<td>26</td>
<td>0.03</td>
<td>0.041</td>
<td>0.8</td>
<td>3.3</td>
<td>24 V, 0.833 A</td>
</tr>
</tbody>
</table>

1. Inductance is for the primary, measured at 200 kHz, 0.1 Vrms.
2. Peak primary current drawn at minimum input voltage.
3. Leakage inductance is for the primary winding with the secondary winding shorted.
4. Electrical specifications at 25°C.

The following pins to be connected on the PC board:
- Pins 1 – 2
- Pins 3 – 4
- Pins 5 – 6
- Pins 7 – 8