Flyback Transformer

For Maxim MAX5941A
PoE Interface/PWM Controller

• Dual-output continuous-current flyback transformer
• Operates with 18–72 Volts input
• 1500 Vrms, one minute isolation between the primary and the secondary

Core material Ferrite
Terminations RoHS tin-silver (96.5/3.5) over tin over nickel over phos bronze. Other terminations available at additional cost.
Weight 4.9 g
Ambient temperature −40°C to +125°C
Storage temperature Component: −40°C to +125°C.
Tape and reel 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 200 per 13” reel Plastic tape: 44 mm wide, 0.35 mm thick, 28 mm pocket spacing, 9.6 mm pocket depth
PCB washing Tested to MIL-STD-202 Method 215 plus an additional aqueous wash. See Doc787_PCB_Washing.pdf.

<table>
<thead>
<tr>
<th>Part number1</th>
<th>Inductance at 0 A2 ±10% (µH)</th>
<th>Inductance at Ipk3 (µH)</th>
<th>DCR max (Ohms)</th>
<th>Leakage inductance4 max (µH)</th>
<th>Turns ratio</th>
<th>Ipk3 (A)</th>
</tr>
</thead>
<tbody>
<tr>
<td>C1154-BL_</td>
<td>255.0</td>
<td>229.5</td>
<td>0.335</td>
<td>0.020</td>
<td>0.017</td>
<td>0.200</td>
</tr>
</tbody>
</table>

1. When ordering, please specify packaging code:

**C1154-BL**

**Packaging:**
- **D** = 13” machine ready reel. EIA-481 embossed plastic tape (200 parts per full reel). Quantities less than full reel available: in tape (not machine ready) or with leader and trailer ($25 charge).
- **B** = Less than full reel. In an effort to simplify our part numbering system, Coilcraft is eliminating the need for multiple packaging codes. When ordering, simply change the last letter of your part number from B to D.

2. Inductance is for the primary, measured at 275 kHz, 1.0 Vrms.
3. Peak primary current drawn at minimum input voltage.
4. Leakage inductance is for the primary winding with the secondary windings shorted.
5. Electrical specifications at 25°C.

Refer to Doc 362 “Soldering Surface Mount Components” before soldering.