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 phosphorous 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>
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<tbody>
<tr>
<td>C1154-BL_</td>
<td>255.0</td>
<td>229.5</td>
<td>N1 0.335</td>
<td>N2 0.020</td>
<td>N3 0.017</td>
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1. When ordering, please specify packaging code:

C1154-BL_D
Packaging: D = 13″ machine ready reel. EIA-481 embossed plastic tape (200 parts per full reel).
B = Less than full reel. In tape, but not machine ready.
To have a leader and trailer added ($25 charge), use code letter D instead.

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.

Recommended Land Pattern

Dimensions are in inches / mm

Dot indicates pin 1

Parts manufactured prior to December 2011 may be marked differently.

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