Flyback Transformer
For Maxim MAX16801 Off-Line LED Driver

- Designed for PWM Dimming of High-Brightness LEDs
- Shown on Maxim MAX16801 demonstration board
- Bias winding output: 18 V, 20 mA
- 400 V input; 110 V, 0.4 A output
- 1500 Vrms, one minute primary and bias to secondary isolation

Core material Ferrite
Terminations RoHS tin-silver (96.5/3.5) over tin over nickel over phosph bronze. Other terminations available at additional cost.

Weight 21.3 g
Ambient temperature -40°C to +125°C
Storage temperature Component: -40°C to +125°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) 38 per billion hours / 26,315,789 hours, calculated per Telcordia SR-332
Packaging 24 parts per tray
PCB washing Only pure water or alcohol recommended

<table>
<thead>
<tr>
<th>Part number</th>
<th>Inductance at 0 Adc(^1) ±10% (µH)</th>
<th>Inductance at Ipk(^2) min (µH)</th>
<th>DCR max (Ohms)</th>
<th>Leakage Inductance(^3) max (µH)</th>
<th>Turns ratio</th>
<th>Ipk(^2) (A)</th>
<th>Output(^4)</th>
</tr>
</thead>
<tbody>
<tr>
<td>GA3502-BL</td>
<td>800</td>
<td>720</td>
<td>1.283 (pins 1–3)</td>
<td>6.60</td>
<td>1 : 0.35</td>
<td>0.75</td>
<td>110 V, 0.4 A</td>
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<td></td>
<td></td>
<td></td>
<td>0.146 (pins 5–6)</td>
<td></td>
<td>1 : 0.06</td>
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<td>0.361 (pins 12–7)</td>
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</table>

1. Inductance is for the primary (pins 1 – 3), measured at 250 kHz, 0.3 Vrms.
2. Peak primary current drawn at minimum input voltage.
3. Leakage inductance is for the primary winding (pins 1 – 3) with the secondary winding shorted.
4. Output is for the secondary. Bias winding output is 18 V, 20 mA.
5. Electrical specifications at 25°C.

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

Recommended Land Pattern

Recommended

Dimensions are in inches

Dimensions are in mm

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