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 phosphor 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 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)
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 ±10% (µH)</th>
<th>Inductance at Ipk (µH)</th>
<th>DCR max (Ohms)</th>
<th>Leakage Inductance max (µH)</th>
<th>Turns ratio pri : sec</th>
<th>Turns ratio pri : bias</th>
<th>Ipk (A)</th>
<th>Output</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>1 : 0.06</td>
<td>0.75</td>
<td>110 V, 0.4 A</td>
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<td></td>
<td></td>
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<td>0.146 (pins 5 – 6)</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.

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**Recommended Land Pattern**

- Dot indicates pin 1
- Dimensions are in inches and mm

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Specification subject to change without notice.
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