Flyback Transformer
For Texas Instruments
UCC1809/2809/3809
Primary Side Controller

- Flyback transformer for 50 Watt dc-to-dc fixed frequency current mode switching power supplies
- Designed to operate with 22 – 26 V input at 150 kHz
- 1500 Vrms, one minute isolation from primary to secondary

Core material  Ferrite
Terminations  RoHS tin-silver over tin over nickel over phos bronze. Other terminations available at additional cost.
Weight  27.1 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 per tray
PCB washing  Tested with pure water or alcohol only. For other solvents, see Doc787_PCB_Washing.pdf.

### Specifications

<table>
<thead>
<tr>
<th>Part number</th>
<th>Power (W)</th>
<th>Inductance at 0 A¹</th>
<th>Inductance at Ipk²</th>
<th>DCR max (Ohms)³</th>
<th>Leakage inductance⁴</th>
<th>Turns ratios⁵</th>
<th>Ipk⁶</th>
<th>Output⁶</th>
</tr>
</thead>
<tbody>
<tr>
<td>GA3136-BL</td>
<td>53</td>
<td>35.0 ±10% (µH)</td>
<td>31.5</td>
<td>0.029</td>
<td>0.074</td>
<td>0.208</td>
<td>0.230</td>
<td>1:1.40</td>
</tr>
</tbody>
</table>

1. Inductance is measured at 150 kHz, 0.1 Vrms.
2. Peak primary current drawn at minimum input voltage.
3. DCR for the primary is with the windings connected in parallel.
4. Leakage inductance is for the primary windings connected in parallel and with the secondary winding shorted.
5. Turns ratios are with the primary windings connected in parallel.
6. Output is for the secondary winding. Output of the bias winding output is 12 V, 20 mA.
7. Electrical specifications at 25°C.

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

Primary windings to be connected in parallel on PC board.

### Land Pattern

![Recommended Land Pattern](image)

Dimensions are in inches

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