Flyback Transformer
US +1-847-639-6400  sales@coilcraft.com
UK +44-1236-730595  sales@coilcraft-europe.com
Taiwan +886-2-2264 3646  sales@coilcraft.com.tw
China +86-21-6218 8074  sales@coilcraft.com.cn
Singapore +65-6484 8412  sales@coilcraft.com.sg

- 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)
Failures in Time (FIT) / Mean Time Between Failures (MTBF) 38 per billion hours / 26,315,789 hours, calculated per Telcordia SR-332
Packaging  24 per tray
PCB washing  Tested with pure water or alcohol only. For other solvents, see Doc787_PCB_Washing.pdf.

<table>
<thead>
<tr>
<th>Part number</th>
<th>Power (W)</th>
<th>Inductance at 0 A ±10% (µH)</th>
<th>Inductance at Ipk2 (µH)</th>
<th>DCR max (Ohms)3 bias</th>
<th>Leakage inductance max (µH)</th>
<th>Turns ratios5 pri:sec</th>
<th>Ipk2 (A)</th>
<th>Output6</th>
</tr>
</thead>
<tbody>
<tr>
<td>GA3136-BL</td>
<td>53</td>
<td>35.0</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.

Dimensions are in inches

- 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)
Failures in Time (FIT) / Mean Time Between Failures (MTBF) 38 per billion hours / 26,315,789 hours, calculated per Telcordia SR-332
Packaging  24 per tray
PCB washing  Tested with pure water or alcohol only. For other solvents, see Doc787_PCB_Washing.pdf.

<table>
<thead>
<tr>
<th>Part number</th>
<th>Power (W)</th>
<th>Inductance at 0 A ±10% (µH)</th>
<th>Inductance at Ipk2 (µH)</th>
<th>DCR max (Ohms)3 bias</th>
<th>Leakage inductance max (µH)</th>
<th>Turns ratios5 pri:sec</th>
<th>Ipk2 (A)</th>
<th>Output6</th>
</tr>
</thead>
<tbody>
<tr>
<td>GA3136-BL</td>
<td>53</td>
<td>35.0</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.

Dimensions are in inches

- 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)
Failures in Time (FIT) / Mean Time Between Failures (MTBF) 38 per billion hours / 26,315,789 hours, calculated per Telcordia SR-332
Packaging  24 per tray
PCB washing  Tested with pure water or alcohol only. For other solvents, see Doc787_PCB_Washing.pdf.

<table>
<thead>
<tr>
<th>Part number</th>
<th>Power (W)</th>
<th>Inductance at 0 A ±10% (µH)</th>
<th>Inductance at Ipk2 (µH)</th>
<th>DCR max (Ohms)3 bias</th>
<th>Leakage inductance max (µH)</th>
<th>Turns ratios5 pri:sec</th>
<th>Ipk2 (A)</th>
<th>Output6</th>
</tr>
</thead>
<tbody>
<tr>
<td>GA3136-BL</td>
<td>53</td>
<td>35.0</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.

Dimensions are in inches

Primary windings to be connected in parallel on PC board.