Flyback Transformers

- Designed for input range of 10 – 14 V.
- 1500 Vrms isolation from primary and bias to secondary;
- 500 Vrms isolation from primary to bias, tested for one minute
- The bias winding provides power to the chipset

Core material  Ferrite
Terminations  RoHS tin-silver over tin over nickel over phos bronze.
Other terminations available at additional cost.
Weight  3.9 to 4.1 g
Ambient temperature  –40°C to +85°C
Storage temperature  Component: –40°C to +85°C.
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  250 per 13” reel  Plastic tape: 32 mm wide, 0.5 mm thick, 20 mm pocket spacing, 11.2 mm pocket depth
PCB washing  Only pure water or alcohol recommended

<table>
<thead>
<tr>
<th>Part number</th>
<th>Inductance at 0 A²</th>
<th>Inductance at Ipk</th>
<th>DCR max (mOhms)</th>
<th>Leakage Inductance max</th>
<th>Turns ratio</th>
<th>Ipk</th>
<th>Input voltage</th>
<th>Output</th>
</tr>
</thead>
<tbody>
<tr>
<td>GA3430-BL_</td>
<td>25.0</td>
<td>22.5</td>
<td>90</td>
<td>90</td>
<td>5 : 1 : 1</td>
<td>2.1</td>
<td>10 – 14</td>
<td>5.0, 1.0 A</td>
</tr>
<tr>
<td>GA3431-BL_</td>
<td>25.0</td>
<td>22.5</td>
<td>90</td>
<td>90</td>
<td>7 : 1 : 1</td>
<td>2.1</td>
<td>10 – 14</td>
<td>3.3, 1.5 A</td>
</tr>
</tbody>
</table>

1. When ordering, please specify **packaging** code:
   - **GA3431-BLD**

   Packaging: **D** = 13” machine-ready reel. EIA-481 embossed plastic tape (250 parts per full reel). Quantities less than full reel available: in tape (not machine ready) or with leader and trailer ($25 charge).
   - **B** = Less than full reel. In an effort to simplify our part numbering system, Coilcraft is eliminating the need for multiple packaging codes. When ordering, simply change the last letter of your part number from B to D.

2. Inductance is for the primary, measured at 250 kHz, 0.3 Vrms, 0 Adc.
3. Ipk is peak primary current drawn at minimum input voltage.
4. DCR for the secondary is per winding.
5. Leakage inductance measured between pins 3 and 4 with all secondary pins shorted.
6. Turns ratio is with the secondary windings connected in parallel.
7. Output is with the secondary windings connected in parallel. Bias winding output: 5.0 V, 20 mA (GA3430); 3.3 V, 20 mA (GA3431).
8. Electrical specifications at 25°C

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