### 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.

#### Specifications

<table>
<thead>
<tr>
<th>Part number</th>
<th>Inductance at 0 A² ±10% (µH)</th>
<th>Inductance at Ipk² min (µH)</th>
<th>DCR max (mOhms)³</th>
<th>Leakage inductance max (µH)⁴</th>
<th>Turns ratio⁶ pri : sec : bias</th>
<th>Ipk³ (A)</th>
<th>Input voltage (V)</th>
<th>Output*</th>
</tr>
</thead>
<tbody>
<tr>
<td>GA3430-BL_</td>
<td>25.0</td>
<td>22.5</td>
<td>90 15</td>
<td>0.685</td>
<td>5 : 1 : 1</td>
<td>2.1</td>
<td>10 – 14</td>
<td>5.0 V, 1.0 A</td>
</tr>
<tr>
<td>GA3431-BL_</td>
<td>25.0</td>
<td>22.5</td>
<td>90 5.0</td>
<td>0.945</td>
<td>7 : 1 : 1</td>
<td>2.1</td>
<td>10 – 14</td>
<td>3.3 V, 1.5 A</td>
</tr>
</tbody>
</table>

1. When ordering, please specify packaging code:

   - **GA3431-BL_D**
   - **Packaging: D** = 13” machine-ready reel. EIA-481 embossed plastic tape (250 parts per full reel).
   - **B** = Less than full reel. In tape, but not machine ready. To have a leader and trailer added ($25 charge), use code letter D instead.

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.

### Core Material
- Ferrite

### Terminations
- RoHS tin-silver over tin over nickel over phosphor 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.
- Packing: −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.

### Dimensions
- Recommended Land Pattern
- Recommendation: 0.098 / 2.50 mm
- Dimensions are in inches / mm

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Specifications subject to change without notice. Please check our website for latest information.