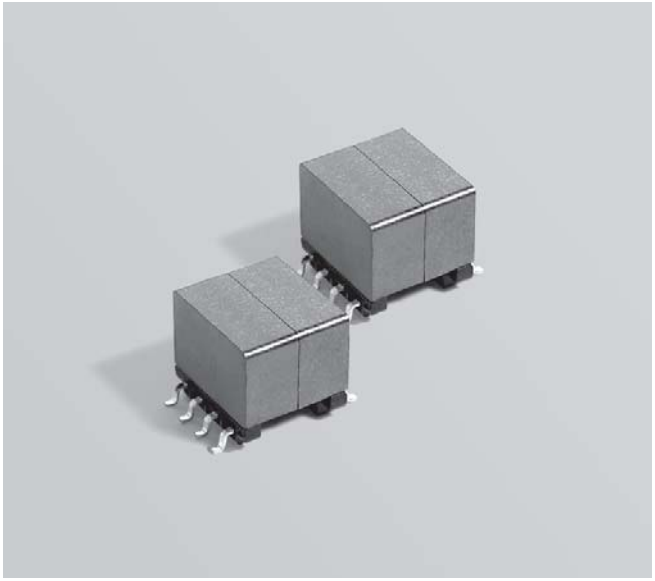
NEW!

RoHS COMPLIANT

# 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

| Part number[1] | Inductance at 0 A[2] ±10% (µH) | Inductance at Ipk[3] min (µH) | DCR max (mOhms)[4] pri | sec | bias | Leakage inductance max (µH)[5] | Turns ratio[6] pri : sec : bias | Ipk[3] (A) | Input voltage (V) | Output[7] |
|---|---|---|---|---|---|---|---|---|---|---|
| GA3430-BL_ | 25.0 | 22.5 | 90 | 15 | 95 | 0.685 | 5 : 1 : 1 | 2.1 | 10 – 14 | 5.0 V, 1.0 A |
| GA3431-BL_ | 25.0 | 22.5 | 90 | 5.0 | 70 | 0.945 | 7 : 1 : 1 | 2.1 | 10 – 14 | 3.3 V, 1.5 A |

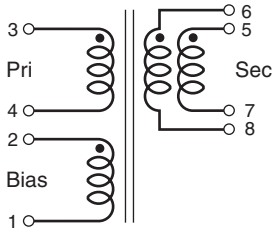
1. When ordering, please specify **packaging** code:

**GA3431-BL D**

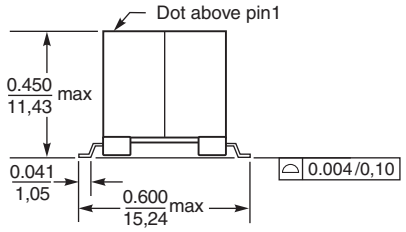
**Packaging: D** = 13″ machine-ready reel. EIA-481 embossed plastic tape (250 parts per full reel).
**B** = Less than full reel. In tape, but not machine ready. To have a leader and trailer added ($25 charge), use code letter D instead.

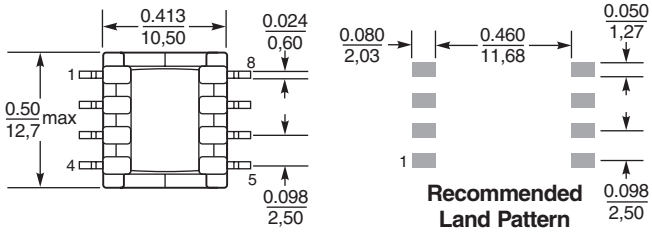
2. Inductance is for the primary, measured at 250 kHz, 0.3 Vrms, 0 Adc.
3. Ipk is peak primary current drawn at minimum input voltage.
4. DCR for the secondary is per winding.
5. Leakage inductance measured between pins 3 and 4 with all secondary pins shorted.
6. Turns ratio is with the secondary windings 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.




Secondary windings to be connected in parallel on PC board




Dimensions are in inches / mm

Coilcraft®

Specifications subject to change without notice.
Please check our website for latest information. Document 864 Revised 05/04/10

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