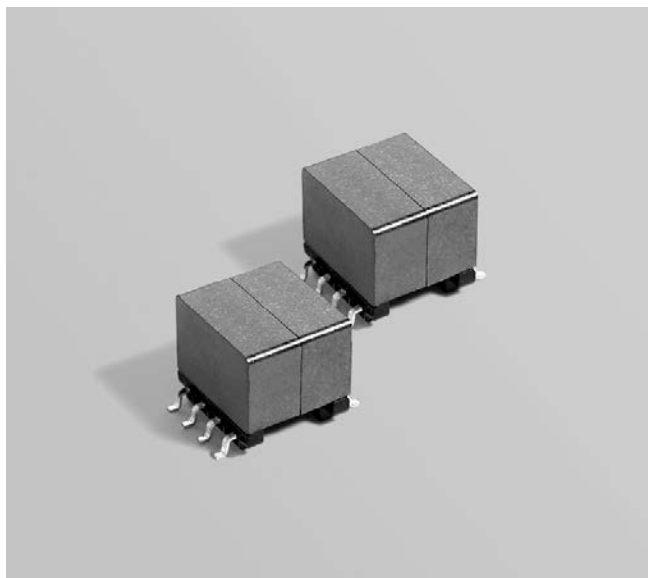




# Flyback Transformers



- 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)

**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 <sup>1</sup>	Inductance at 0 A <sup>2</sup> ±10% (μH)	Inductance at I <sub>pk</sub> <sup>3</sup> min (μH)	DCR max (mOhms) <sup>4</sup>			Leakage inductance max (μH) <sup>5</sup>	Turns ratio <sup>6</sup> pri : sec : bias	I <sub>pk</sub> <sup>3</sup> (A)	Input voltage (V)	Output <sup>7</sup>
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-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. I<sub>pk</sub> is peak primary current drawn at minimum input voltage.

4. DCR for the secondary is per winding.

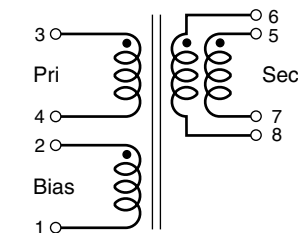
5. Leakage inductance measured between pins 3 and 4 with all secondary pins shorted.

6. Turns ratio is with the secondary windings connected in parallel.

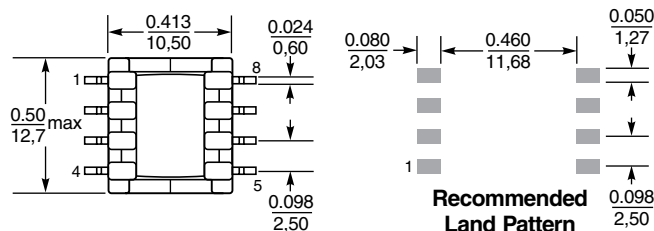
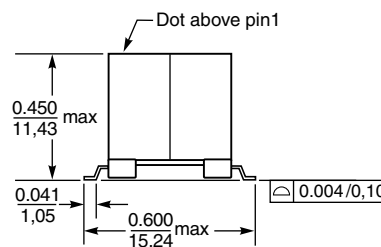
7. Output is with the secondary windings connected in parallel. Bias winding output: 5.0 V, 20 mA (GA3430); 3.3 V, 20 mA (GA3431).

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  $\frac{\text{inches}}{\text{mm}}$



www.coilcraft.com

**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

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