



**NEW!**

# 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 <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>
			pri	sec	bias					
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

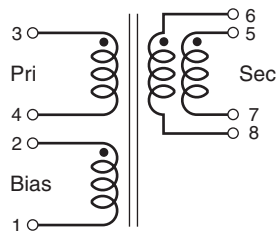
1. When ordering, please specify **packaging** code:

**GA3431-BL D**

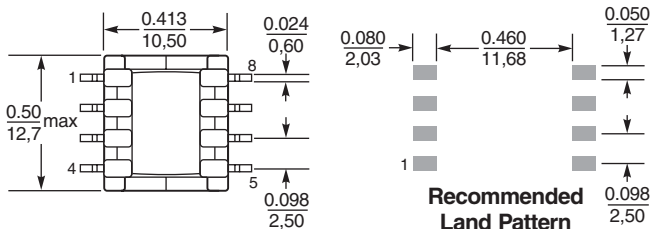
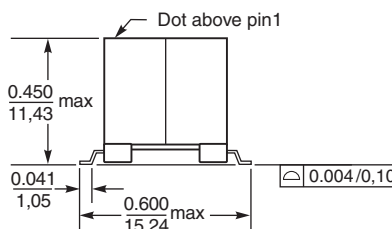
**Packaging: D** = 13" machine-ready reel. EIA-481 embossed plastic tape (250 parts per full reel).

**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.

- Inductance is for the primary, measured at 250 kHz, 0.3 Vrms, 0 Adc.
  - I<sub>pk</sub> is peak primary current drawn at minimum input voltage.
  - DCR for the secondary is per winding.
  - Leakage inductance measured between pins 3 and 4 with all secondary pins shorted.
  - Turns ratio is with the secondary windings connected in parallel.
  - Output is with the secondary windings connected in parallel. Bias winding output: 5.0 V, 20 mA (GA3430); 3.3 V, 20 mA (GA3431).
  - 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



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

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