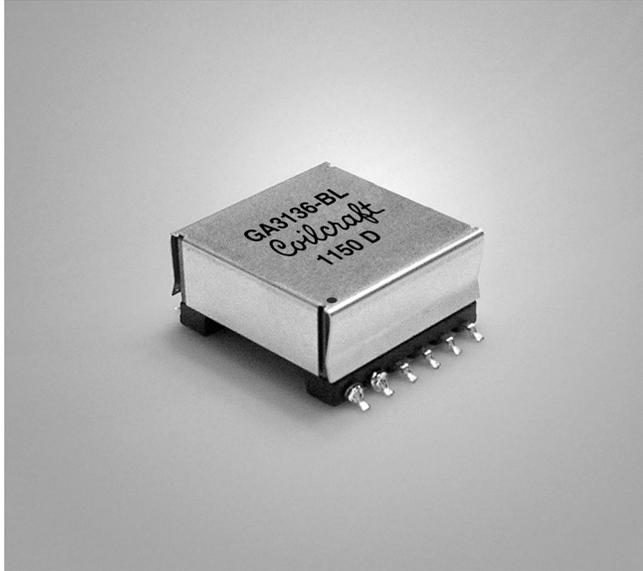


# Flyback Transformer

For Texas Instruments  
UCC1809/2809/3809  
Primary Side Controller



- Flyback transformer for 50Watt dc-to-dc fixed frequency current mode switching power supplies
- Designed to operate with 22 – 26 V input at 150 kHz
- 1500 Vrms, one minute isolation from primary to secondary

**Core material** Ferrite

**Terminations** RoHS tin-silver over tin over nickel over phos bronze. Other terminations available at additional cost.

**Weight** 27.1 g

**Ambient temperature** -40°C to +125°C

**Storage temperature** Component: -40°C to +125°C.

Tray 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

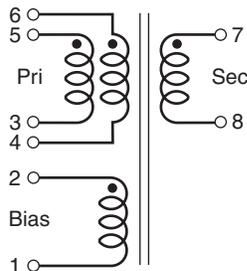
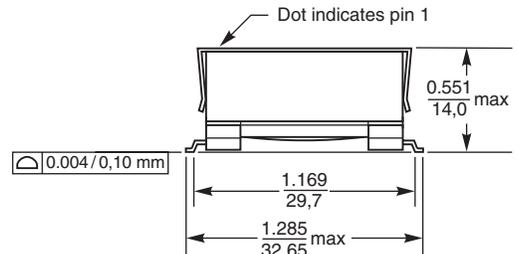
**Moisture Sensitivity Level (MSL)** 1 (unlimited floor life at <30°C / 85% relative humidity)

**Packaging** 24 per tray

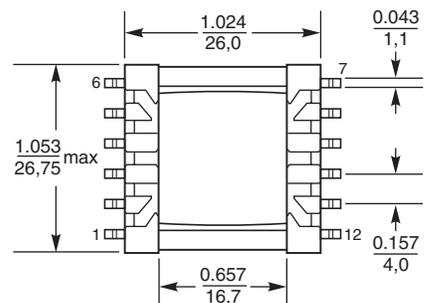
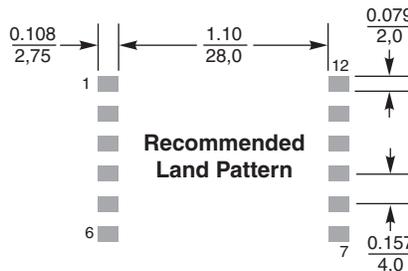
**PCB washing** Tested with pure water or alcohol only. For other solvents, see Doc787\_PCB\_Washing.pdf.

Part number	Power (W)	Inductance at 0A <sup>1</sup> ±10% (µH)	Inductance at I <sub>pk</sub> <sup>2</sup> min (µH)	DCR max (Ohms) <sup>3</sup>			Leakage inductance <sup>4</sup> max (µH)	Turns ratios <sup>5</sup>		I <sub>pk</sub> <sup>2</sup> (A)	Output <sup>6</sup>
				pri	sec	bias		pri:sec	pri:bias		
GA3136-BL	53	35.0	31.5	0.029	0.074	0.208	0.230	1:1.40	1:0.33	5.9	53V, 1.0A

1. Inductance is measured at 150 kHz, 0.1 Vrms.
  2. Peak primary current drawn at minimum input voltage.
  3. DCR for the primary is with the windings connected in parallel.
  4. Leakage inductance is for the primary windings connected in parallel and with the secondary winding shorted.
  5. Turns ratios are with the primary windings connected in parallel.
  6. Output is for the secondary winding. Output of the bias winding output is 12 V, 20 mA.
  7. Electrical specifications at 25°C.
- Refer to Doc 362 "Soldering Surface Mount Components" before soldering.



Primary windings to be connected in parallel on PC board.



Dimensions are in  $\frac{\text{inches}}{\text{mm}}$



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