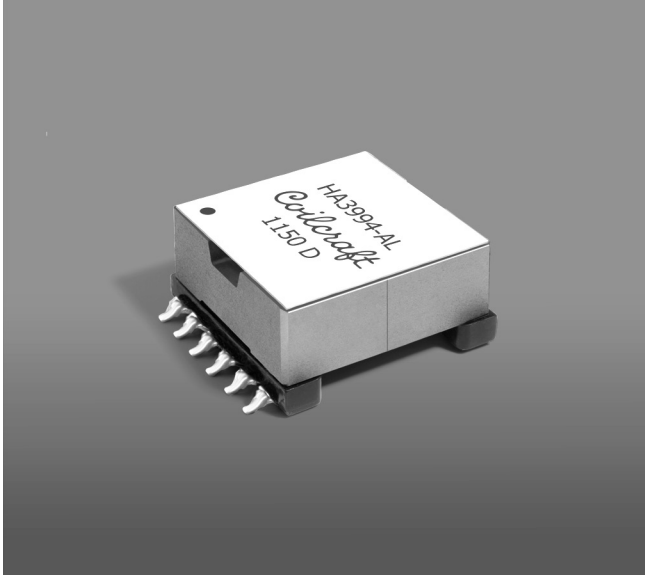




# Flyback Transformer

For Linear Technology LT3751  
Capacitor Charger Controller



- Flyback transformer for the Linear Technology LT3751 Capacitor Charger Controller
- 5 – 24 V input; 5 V, 3.6 A and  $\pm 15$  V, 1.2A outputs
- 1500 Vrms, one minute isolation from primary to secondary windings

**Core material** Ferrite

**Terminations** RoHS tin-silver (96.5/3.5) over tin over nickel over phos bronze. Other terminations available at additional cost.

**Weight** 25.0 g

**Ambient temperature**  $-40^{\circ}\text{C}$  to  $+85^{\circ}\text{C}$

**Storage temperature** Component:  $-40^{\circ}\text{C}$  to  $+85^{\circ}\text{C}$ .

Tray packaging:  $-40^{\circ}\text{C}$  to  $+80^{\circ}\text{C}$

**Resistance to soldering heat** Max three 40 second reflows at  $+260^{\circ}\text{C}$ , parts cooled to room temperature between cycles

**Moisture Sensitivity Level (MSL)** 1 (unlimited floor life at  $<30^{\circ}\text{C}$  / 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** 24 per tray

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

Part number	Inductance at 0A <sup>1</sup> $\pm 10\%$ ( $\mu\text{H}$ )	Inductance at $I_{pk}^2$ min ( $\mu\text{H}$ )	DCR max (Ohms) <sup>3</sup>				Leakage inductance <sup>4</sup> max ( $\mu\text{H}$ )	Turns ratio <sup>5</sup> pri : sec 1 : sec 2 : sec 3	$I_{pk}^2$ (A)	Volt-time product typ ( $\mu\text{V sec}$ )
			pri	sec 1	sec 2	sec 3				
HA3994-AL	7.50	6.75	0.018	0.020	0.031	0.031	0.22	1:0.5:1.5:1.5	5.0	37.5

1. Inductance is measured at 100 kHz, 0.1 Vrms.

2. Peak primary current drawn at minimum input voltage.

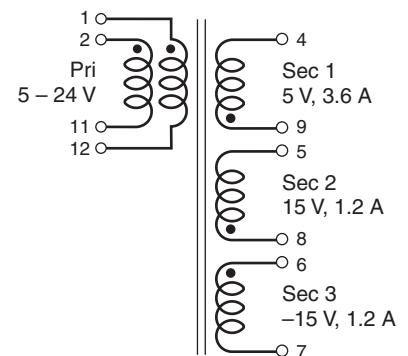
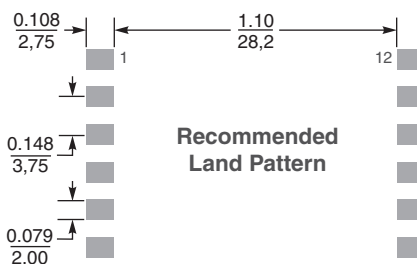
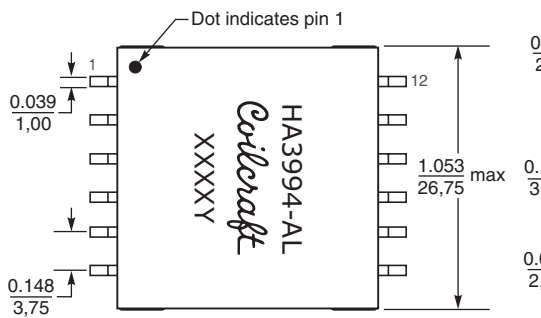
3. DCR for the primary is with the windings connected in parallel.

4. Leakage inductance is for both windings of the primary with the secondary windings shorted.

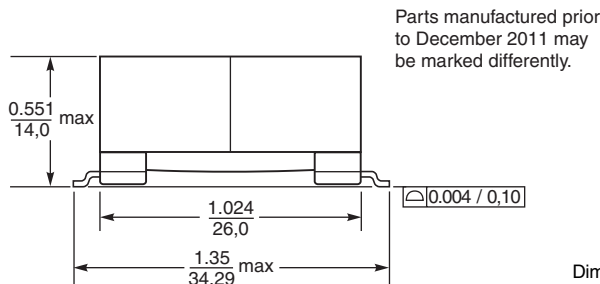
5. Turns ratios are with the primary windings connected in parallel.

6. Electrical specifications at  $25^{\circ}\text{C}$ .

Refer to Doc 362 "Soldering Surface Mount Components" before soldering.



Primary windings to be connected in parallel on PCB board.



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



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