Flyback Transformers

For Linear Technology LT3751 Capacitor Charger Controller

- Flyback transformer for the Linear Technology LT3751 Capacitor Charger Controller for charging capacitors to 500 V
- GA3459-BL: 5 – 24 V input; GA3460-BL: 12 – 24 V input
- 1500 Vrms, one minute isolation from primary to secondary windings
- Flux shield minimizes EMI emission

Core material: Ferrite
Terminations: RoHS tin-silver (96.5/3.5) over tin over nickel over phosph bronze. Other terminations available at additional cost.

Weight: 24.2 – 27.5 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)

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.

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**Andere Details:**

- **Part number**
- **Inductance at 0 A: ±10% (µH)**
- **Inductance at Ipk (µH)**
- **DCR max pri (mOhms)**
- **Leakage inductance max (µH)**
- **Turns ratio: pri: sec**
- **Ipk (A)**

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1. Inductance is measured at 50 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 with windings connected in parallel and with the secondary winding shorted.

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**Diagram Details:**

- Flux shield minimizes EMI emission
- Primary windings to be connected in parallel on PC board. Connect pin 6 to ground.

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**Note:** The primary windings of these transformers DO NOT have the same pinouts.