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 ±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 phosphor bronze. Other terminations available at additional cost.
Weight 25.0 g
Ambient temperature –40°C to +85°C
Storage temperature Component: –40°C to +85°C.
Tray packaging: –40°C to +80°C
Resistance to soldering heat Max 40 second refloows 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.

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.

<table>
<thead>
<tr>
<th>Part number</th>
<th>Inductance at 0 A (µH)</th>
<th>Inductance at Ipk (µH)</th>
<th>DCR max (Ohms)</th>
<th>Leakage inductance (µH)</th>
<th>Turns ratio</th>
<th>Volt-time product (V µsec)</th>
</tr>
</thead>
<tbody>
<tr>
<td>HA3994-AL</td>
<td>7.50</td>
<td>6.75</td>
<td>0.018</td>
<td>0.020</td>
<td>0.031</td>
<td>0.22</td>
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</tbody>
</table>

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

- Dimensions are in inches / mm
- Parts manufactured prior to December 2011 may be marked differently.
- Primary windings to be connected in parallel on PC board.