Flyback Transformer
For Linear Technology LT3751 Capacitor Charger Controller

- Flyback transformer for the Linear Technology LT3751 Capacitor Charger Controller
- 120 – 377 V input; up to 500 V output
- 3000 Vrms 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  37.3 g
Ambient temperature  –40°C to +85°C
Maximum part temperature  +125°C (ambient + temp rise)
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  64 per tray
PCB washing  Tested with pure water or alcohol only. For other solvents, see Doc787_PCB_Washing.pdf.

<table>
<thead>
<tr>
<th>Part number</th>
<th>Inductance at 0 A</th>
<th>Inductance at Ipk</th>
<th>DCR max (Ohms)</th>
<th>Leakage inductance</th>
<th>Turns ratio</th>
<th>Ipk (A)</th>
<th>Volt-time product</th>
</tr>
</thead>
<tbody>
<tr>
<td>HA4061-AL</td>
<td>125</td>
<td>112.5</td>
<td>0.203</td>
<td>1.40</td>
<td>9.17</td>
<td>1:3</td>
<td>5.0</td>
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</tbody>
</table>

1. Inductance is measured at 100 kHz, 0.1 Vrms.
2. Peak primary current drawn at minimum input voltage.
3. DCR 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 and secondary windings connected in parallel.
6. Electrical specifications at 25°C.

Primary windings and secondary windings to be connected in parallel on PC board.

Recommended PC Board Layout

Dimensions are in inches

Parts manufactured prior to December 2011 may be marked differently.