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)
Failures in Time (FIT) / Mean Time Between Failures (MTBF): 38 per billion hours / 26,315,789 hours, calculated per Telcordia SR-332
Packaging: 64 per tray
PCB washing: Tested with pure water or alcohol only. For other solvents, see Doc787_PCB_Washing.pdf.

### Specifications

- **Part Number**: HA4061-AL
- **Inductance at 0 A**
  - ±10% (µH) min
  - ±10% (µH) max
- **DCR max** (Ohms)
  - pri
  - sec
- **Leakage Inductance** (µH) max
- **Turns ratio** pri : sec
- **Ipk** (A)
- **Volt-time product** typ (V µsec)

#### Electrical Specifications

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.

<table>
<thead>
<tr>
<th>Part Number</th>
<th>Inductance at 0 A</th>
<th>Inductance at Ipk</th>
<th>DCR max</th>
<th>Leakage Inductance</th>
<th>Turns ratio</th>
<th>Ipk</th>
<th>Volt-time Product</th>
</tr>
</thead>
<tbody>
<tr>
<td>HA4061-AL</td>
<td>±10% (µH) min</td>
<td>±10% (µH) max</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></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>
</tr>
</tbody>
</table>

### Dimensions

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

**Dimensions are in inches/mm**

**Recommended PC Board Layout**

**Parts manufactured prior to December 2011 may be marked differently.**

---

**RoHS Compliant**

© Coilcraft Inc. 2016

This product may not be used in medical or high risk applications without prior Coilcraft approval. Specification subject to change without notice. Please check web site for latest information.

---

**Web Site**: www.coilcraft.com

**Telephone**
- US: +1-847-639-6400 sales@coilcraft.com
- UK: +44-1236-730595 sales@coilcraft-europe.com
- Taiwan: +886-2-2264 3646 sales@coilcraft.com.tw
- China: +86-21-6218 8074 sales@coilcraft.com.cn
- Singapore: +65-6484 8412 sales@coilcraft.com.sg

**Document 735 Revised 12/16/11**

---

**Flyback Transformer**

**For Linear Technology LT3751 Capacitor Charger Controller**

**Recommended PC Board Layout**

**Dimensions are in inches/mm**

**Parts manufactured prior to December 2011 may be marked differently.**

---

**RoHS Compliant**

© Coilcraft Inc. 2016

This product may not be used in medical or high risk applications without prior Coilcraft approval. Specification subject to change without notice. Please check web site for latest information.

---

**Web Site**: www.coilcraft.com

**Telephone**
- US: +1-847-639-6400 sales@coilcraft.com
- UK: +44-1236-730595 sales@coilcraft-europe.com
- Taiwan: +886-2-2264 3646 sales@coilcraft.com.tw
- China: +86-21-6218 8074 sales@coilcraft.com.cn
- Singapore: +65-6484 8412 sales@coilcraft.com.sg