Flyback Transformer
For Linear Technology
LT8584

• Developed for Linear Technology LT8584 Isolated Monolithic Active Cell Balancer
• Designed to operate at 140 kHz; Rated for 7–12 Watts
• 1500 Vrms, one minute isolation between primary and secondary
• AEC-Q200 Grade 1 qualified (–40°C to +125°C ambient)

Core material Ferrite
Terminations RoHS tin-silver over tin over nickel over phos bronze.
Other terminations available at additional cost.
Weight 3.9 – 4.2 g
Ambient temperature –40°C to +125°C
Maximum part temperature +165°C (ambient + temp rise)
Storage temperature Component: –40°C to +165°C
Tape and reel 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 200 per 13” reel Plastic tape: 32 mm wide, 0.5 mm thick, 24 mm pocket spacing, 11.2 mm pocket depth
PCB washing Tested to MIL-STD-202 Method 215 plus an additional aqueous wash. See Doc787_PCB_Washing.pdf.

<table>
<thead>
<tr>
<th>Part number</th>
<th>Input voltage (V)</th>
<th>Inductance ±10% (µH)</th>
<th>Inductance at Ipk (µH)</th>
<th>DCR max (Ohms)</th>
<th>Leakage inductance max (µH)</th>
<th>Turns ratio</th>
<th>Ipk (A)</th>
<th>Output voltage (V)</th>
</tr>
</thead>
<tbody>
<tr>
<td>NA5743-AL_</td>
<td>2 – 8</td>
<td>4.0</td>
<td>3.6</td>
<td>0.012</td>
<td>0.500</td>
<td>0.116</td>
<td>1:4</td>
<td>7.0</td>
</tr>
</tbody>
</table>

1. When ordering, please specify packaging code:

   NA5743-AL_D

   Packaging: D = 13” machine-ready reel. EIA-481 embossed plastic tape (200 parts per full reel). Quantities less than full reel available: in tape (not machine ready) or with leader and trailer ($25 charge).

   B = Less than full reel. In an effort to simplify our part numbering system, Coilcraft is eliminating the need for multiple packaging codes. When ordering, simply change the last letter of your part number from B to D.

2. Inductance is for the primary, measured at 150 kHz, 0.1 Vrms, 0 Adc.
3. Ipk is peak primary current drawn at minimum input voltage.
4. DCR for the primary is measured with windings connected in parallel.
5. Leakage inductance is for the primary, measured with secondary pins shorted.
6. Turns ratio is with the primary windings connected in parallel.
7. Electrical specifications at 25°C.

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