Flyback Transformer

For TI TPS23751/2 PD Controllers

- Flyback transformer for Texas Instruments TPS23751 and TPS23752 PD Controllers
- Input: 33 – 57 V
- 1500 Vrms, one minute isolation from primary and bias to secondary and drive

Core material: Ferrite
Terminations: RoHS tin-silver-copper over tin over nickel over phos bronze. Other terminations available at additional cost.
Weight: 11.3 g
Ambient temperature: -40°C to +125°C
Storage temperature: Component: -40°C to +125°C.
Resistance to soldering heat: Max three 40 second reflo ws 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: 175 parts per 13 ” reel Plastic tape: 44 mm wide, 0.4 mm thick, 28 mm pocket spacing, 11.9 mm pocket depth

Part number

<table>
<thead>
<tr>
<th>Part number</th>
<th>L at 0 A²</th>
<th>L at Ipk³</th>
<th>DCR max (Ohms)⁴</th>
<th>Leakage L⁵</th>
<th>Turns ratio⁶</th>
<th>Ipk³ (A)</th>
<th>Output⁷</th>
</tr>
</thead>
<tbody>
<tr>
<td>NA5730-AL_</td>
<td>62</td>
<td>55.8</td>
<td>0.107 0.004 0.122 0.060</td>
<td>2.0 1:0.125 1:0.29 1:0.125</td>
<td>2.1</td>
<td>5.0 V, 4.5 A</td>
<td></td>
</tr>
</tbody>
</table>

1. When ordering, please specify a packaging code:

**NA5730-AL**

Packaging: D = 13” machine ready reel, EIA-481 embossed plastic tape (175 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 measured at 250 kHz, 0.1 Vrms, 0 Adc.
3. Peak primary current drawn at minimum input voltage.
4. DCR for the primary and the secondary is measured with windings connected in parallel.
5. Leakage inductance is for the primary, measured with the windings connected in parallel and the secondary windings shorted.
6. Turns ratio is with the primary windings and secondary windings connected in parallel.
7. Output is with the secondary windings connected in parallel. Output of the drive winding is 5 V, 10 mA. Output of the bias winding is 12 V, 20 mA.
8. Electrical specifications at 25°C.
9. Refer to Doc 362 “Soldering Surface Mount Components” before soldering.