Flyback Transformer

For DC-DC converters based on Power Integrations DPA423G

- Designed in accordance with Power Integrations Engineering Prototype Report EPR-86
- Operates in continuous conduction mode with 36 – 57 V input
- 1500 Vrms isolation between primary and secondary

Core material  Ferrite

Terminations  RoHS tin-silver over tin over nickel over phos bronze. Other terminations available at additional cost.

Weight  2.4 g

Ambient temperature  -40°C to +125°C

Storage temperature  Component: -40°C to +125°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  400 per 13” reel Plastic tape: 32 mm wide, 0.4 mm thick, 20 mm pocket spacing, 7.6 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>Inductance at 0 Adc^2 ±10% (µH)</th>
<th>Inductance at Ipk^3 min (µH)</th>
<th>DCR max (Ohms)</th>
<th>Leakage inductance^4 max (µH)</th>
<th>Turns ratios^5 pri : sec</th>
<th>pri : bias</th>
<th>Ipk^3 (A)</th>
<th>Secondary output</th>
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<tbody>
<tr>
<td>DA2062-AL_</td>
<td>120</td>
<td>97</td>
<td>0.475 (pins 3 – 1)</td>
<td>0.013 (pins 9 – 6)</td>
<td>3.0</td>
<td>1 : 0.1</td>
<td>1 : 0.4</td>
<td>0.64</td>
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<td></td>
<td></td>
<td></td>
<td>0.013 (pins 10 – 7)</td>
<td>0.181 (pins 4 – 5)</td>
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1. When ordering, please specify a packaging code:

   DA2062-AL_D

   Packaging: D = 13” machine ready reel. EIA-481 embossed plastic tape (400 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 375 kHz, 0.6 Vrms, 0 Adc.

3. Peak primary current drawn at minimum input voltage.

4. Leakage inductance is for the primary and is measured with secondary windings shorted.

5. Turns ratio is with the secondary windings connected in parallel.

7. Output of the secondary is with the windings connected in parallel. Bias winding output is 14 V.

8. Electrical specifications at 25°C.

   Refer to Doc 362 “Soldering Surface Mount Components” before soldering.

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Dimensions are in inches mm

Recommended Land Pattern

Parts manufactured prior to November 2011 may be marked differently.