Flyback Transformers

For Silicon Laboratories
Si3402 PD Controllers

- Designed for Power over Ethernet PD controllers for applications up to 15 Watts.
- Operates in continuous conduction mode with 36 – 72 V input
- 1500 Vrms, one minute 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  6.57 – 6.71 g
Ambient temperature  -40°C to +85°C
Storage temperature  Component: -40°C to +85°C.
Tape and reel packaging: -40°C to +80°C
Max Part Temperature  125°C
Resistance to soldering heat  Max three 40 second reflows at +260°C, parts cooled to room temperature between cycles
Packaging  175 per 13” reel Plastic tape: 32 mm wide, 0.5 mm thick, 28 mm pocket spacing, 12.93 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>Power (W)</th>
<th>Inductance at 0 A² ±10% (µH)</th>
<th>Inductance at Ipk (µH)</th>
<th>DCR max (Ohms)²</th>
<th>Leakage inductance max (µH)</th>
<th>Turns ratio⁶</th>
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<tbody>
<tr>
<td>FA2924-AL₂</td>
<td>15</td>
<td>40.0</td>
<td>36.0</td>
<td>0.100</td>
<td>0.666</td>
<td>1 : 0.3</td>
<td>2.0</td>
<td>3.3 V, 4.5 A</td>
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<tr>
<td>FA2805-CL₂</td>
<td>15</td>
<td>40.0</td>
<td>36.0</td>
<td>0.108</td>
<td>0.621</td>
<td>1 : 0.4</td>
<td>2.0</td>
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<td>0.566</td>
<td>1 : 1</td>
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1. When ordering, please specify packaging code:

• FA2925-ALD
  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 for the primary, measured at 200 kHz. 0.2 Vrms, 0 Adc.
3. Ipk is peak primary current drawn at minimum input voltage.
4. DCR for the secondary is per winding.
5. Leakage inductance measured between pins 1 and 2 with all secondary pins shorted.
6. Turns ratio is with the secondary windings connected in parallel.
7. Output is with the secondary windings connected in parallel.
8. Electrical specifications at 25°C.

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

Recommended Land Pattern

Dimensions are in inches

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