Flyback Transformer
For Texas Instruments
LM5071 PoE PD Controller

- Designed to operate in continuous mode at 250 kHz
- TI App Note AN-1430 specifies 84% efficiency at 3 A.
- 1500 Vrms, one minute isolation from primary and aux to secondary

Core material  Ferrite
Terminations  RoHS tin-silver over tin over nickel over phos bronze. Other terminations available at additional cost.
Weight  5.97 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
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  175 per 13" reel Plastic tape: 32 mm wide, 0.5 mm thick
PCB washing  Tested to MIL-STD-202 Method 215 plus an additional aqueous wash. See Doc787_PCB_Washing.pdf.

<table>
<thead>
<tr>
<th>Part number1</th>
<th>L at 0 A2 ±10% (µH)</th>
<th>L at Ipk3 min (µH)</th>
<th>Input voltage (V)</th>
<th>DCR max (Ohms)</th>
<th>Leakage L4 max (µH)</th>
<th>Turns ratios</th>
<th>Ipk3 (A)</th>
<th>Outputs5</th>
</tr>
</thead>
<tbody>
<tr>
<td>DA2383-AL_</td>
<td>127.0</td>
<td>114.3</td>
<td>24 –60</td>
<td>0.310 (aux)</td>
<td>1.25</td>
<td>2 : 1 (pri : aux)</td>
<td>1.0</td>
<td>10 V, 0.05 A (aux)</td>
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<td></td>
<td></td>
<td></td>
<td></td>
<td>0.012 (sec)</td>
<td></td>
<td>6 : 1 (pri : sec)</td>
<td>3.3</td>
<td>4.0 A (sec)</td>
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<tr>
<td></td>
<td></td>
<td></td>
<td></td>
<td>0.255 (pri)</td>
<td></td>
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</tbody>
</table>

1. When ordering, please specify packaging code:
   **DA2383-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. Leakage inductance measured on the primary winding with all secondary pins shorted.
5. Output of the secondary is with the windings connected in parallel.
6. Electrical specifications at 25°C.
Refer to Doc 362 “Soldering Surface Mount Components” before soldering.

Recommended Land Pattern

Secondary windings to be connected in parallel on the PC board

Dimensions are in inches

Dimensions are in mm

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