Flyback Transformer For National Semiconductor LM5015
Two-Switch DC-DC Regulator

- Referenced on NSC application notes AN-1724 and AN-1725
- Designed to operate at 250 kHz in continuous conduction mode with 36–72 Volts input
- 1500 Vrms, one minute isolation from the primary and auxiliary to the secondary

Core material  Ferrite
Terminations  RoHS tin-silver over tin over nickel over phos bronze. Other terminations available at additionl cost.
Weight  6.0 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 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 per 13” reel Plastic tape: 32 mm wide, 0.5 mm thick, 28 mm pocket spacing, 12.93 mm pocket depth
PCB washing  Only pure water or alcohol recommended

<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)</th>
<th>Leakage inductance max (µH)</th>
<th>Turns ratio</th>
<th>Ipk (A)</th>
<th>Output</th>
</tr>
</thead>
<tbody>
<tr>
<td>GA3372-AL_1</td>
<td>13</td>
<td>102.0</td>
<td>91.8</td>
<td>0.185</td>
<td>0.0175</td>
<td>1 : 0.25</td>
<td>1.2</td>
<td>5 V, 2.6 A</td>
</tr>
</tbody>
</table>

1. When ordering, please specify packaging code:

**GA3372-ALD**

**Packaging:**
- **D** = 13” machine-ready reel. EIA-481 embossed plastic tape (175 parts per full reel).
- **B** = Less than full reel. In tape, but not machine ready. To have a leader and trailer added ($25 charge), use code letter D instead.

2. Inductance measured at 250 kHz, 0.7 Vrms, 0 Adc.
3. Peak primary current drawn at minimum input voltage.
4. DCR for the secondary is with windings connected in parallel.
5. Leakage inductance is for the primary and is measured with the secondary shorted.
6. Turns ratio is with the secondary windings connected in parallel.
7. Output of the secondary is with the windings connected in parallel. Auxiliary winding output is 10 V, 20 mA.
8. 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 PC board**

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