Flyback Transformer
Isolated Micropower Management Unit

- Developed to use with isolated flyback DC-DC regulator in the Analog Devices ADP1031.
- 2250 Vrms, one minute isolation from primary to secondary
- AEC-Q200 Grade 1 qualified (−40°C to +125°C ambient)

Core material: Ferrite
Terminations: RoHS tin-silver-copper (95.5/3.8/0.7) over tin over nickel over phos bronze.
Weight: 0.99 g
Ambient temperature: −40°C to +125°C
Maximum part temperature: +165°C
Storage temperature: Component: −40°C to +165°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)
Failures in Time (FIT) / Mean Time Between Failures (MTBF): 38 per billion hours / 26,315,789 hours, calculated per Telcordia SR-332

1. **Packaging**: D = 13” machine ready reel. EIA-481 embossed plastic tape.
2. Inductance is for the primary, measured on an Agilent/HP 4284 at 250 kHz, 0.1 Vrms, 0 Adc.
3. Leakage inductance is for the primary with secondary winding shorted together.
4. Isolation (hipot) measured between windings for one minute.
5. DC current that causes an inductance drop of 20% (typ) from its value without current.

### Specifications

<table>
<thead>
<tr>
<th>Part number</th>
<th>Input voltage (V)</th>
<th>Inductance (\pm 20%) (µH)</th>
<th>Leakage inductance max (µH)</th>
<th>DCR max (Ohms)</th>
<th>Turns ratio</th>
<th>Isolation</th>
<th>Isat (A)</th>
<th>Output</th>
</tr>
</thead>
<tbody>
<tr>
<td>YA9293-ALD</td>
<td>4.5 – 60</td>
<td>300</td>
<td>1.62</td>
<td>1.2</td>
<td>0.785</td>
<td>2250</td>
<td>0.25</td>
<td>24 V, 20 mA</td>
</tr>
</tbody>
</table>

Dot indicates pin 1

Recommended Land Pattern

Dimensions are in mm

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