## Flyback Transformer

For Maxim Integrated MAX17690

### Peak Current Mode Controller

- Optimized for Maxim's MAXREFDES1226 reference design and MAX17690 No-Opto Isolated Flyback Controllers
- Designed for discontinuous conduction mode, 17 – 36 V input
- 1500 Vrms, 1 minute isolation (hipot), between primary to secondary

### Core material
- Ferrite

### Terminations
- RoHS tin-silver-copper over tin over nickel over phosph bronze. Other terminations available at additional cost.

### Weight
- 1.5 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)

### Failures in Time (FIT) / Mean Time Between Failures (MTBF)
- 38 per billion hours / 26,315,789 hours, calculated per Telcordia SR-332

### Packaging
- 500 per 13” reel Plastic tape: 24 mm wide, 0.36 mm thick, 16 mm pocket spacing, 6.13 mm pocket depth

### PCB washing
- Tested to MIL-STD-202 Method 215 plus an additional aqueous wash. See Doc787_PCB_Washing.pdf.

### Table: Specifications

<table>
<thead>
<tr>
<th>Part number</th>
<th>Inductance at 0 Adc(^2) ±10% (µH)</th>
<th>Inductance at 2.6 Adc(^3) min (µH)</th>
<th>Isat(^4) (A)</th>
<th>DCR max (Ohms)</th>
<th>Leakage Inductance max (µH)</th>
<th>Turns ratio</th>
<th>Isolation(^6) (Vrms)</th>
<th>Output</th>
</tr>
</thead>
<tbody>
<tr>
<td>YA9280-ALD</td>
<td>18</td>
<td>15.3</td>
<td>3.75</td>
<td>0.101</td>
<td>0.027</td>
<td>1 : 0.4</td>
<td>1500</td>
<td>5 V, 1.5 A</td>
</tr>
</tbody>
</table>

1. **Packaging:** D = 13” machine ready reel. EIA-481 embossed plastic tape (500 parts per full reel).
2. Inductance is for the primary, measured at 150 kHz, 0.1 Vrms, 0 Adc.
3. Minimum inductance is for the primary, measured at 150 kHz, 0.1 Vrms, 2.6 Adc.
4. DC current that causes an inductance drop of 30% (typ) from its value without current.
5. Leakage inductance is for the primary winding with the secondary windings shorted.
6. Isolation (hipot) measured between windings for one minute.
7. Electrical specifications at 25°C.

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

### L vs Current

![Graph showing Inductance vs Current](graph.png)

Dimensions are in inches / mm

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www.coilcraft.com

US +1-847-639-6400 sales@coilcraft.com
UK +44-1236-730595 sales@coilcraft-europe.com
Taiwan +886-2-2264 3646 sales@coilcraft.com.tw
China +86-21-6218 8074 sales@coilcraft.com.cn
Singapore + 65-6484 8412 sales@coilcraft.com.sg

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