**NEW!**

## No-opto Flyback Transformers

- Discontinuous conduction mode Flyback transformers
- Optimized for 125 – 150 kHz with 8 – 28 V or 18 – 60 V input
- 1500 Vrms, one minute isolation between primary and secondary

### Core material
- Ferrite

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

### Weight
- 2.65 – 2.75 g

### Ambient temperature
- −40°C to +85°C

### Max Part Temperature
- +125°C (ambient + temperature rise)

### 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

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

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### Specifications

<table>
<thead>
<tr>
<th>Part Number</th>
<th>Inductance at 0 A² (µH)</th>
<th>Isat (A)</th>
<th>DCR max (Ohms)</th>
<th>Leakage Inductance max (µH)²</th>
<th>Turns ratio</th>
<th>Isolation (Vrms)</th>
<th>Power (W)</th>
<th>Output</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>±10%</td>
<td></td>
<td></td>
<td></td>
<td></td>
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<tr>
<td><strong>8 – 28 V input</strong></td>
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<td></td>
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<tr>
<td>YA9123-BED</td>
<td>8</td>
<td>5.9</td>
<td>0.025</td>
<td>0.24</td>
<td>0.124</td>
<td>1 : 0.751</td>
<td>1500</td>
<td>6</td>
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<tr>
<td>YA9124-BED</td>
<td>8</td>
<td>5.9</td>
<td>0.025</td>
<td>0.125</td>
<td>0.124</td>
<td>1 : 1.625</td>
<td>1500</td>
<td>6</td>
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<td>YA9125-BED</td>
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<td>5.9</td>
<td>0.025</td>
<td>0.306</td>
<td>0.100</td>
<td>1 : 3.125</td>
<td>1500</td>
<td>6</td>
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<tr>
<td><strong>18 – 60 V input</strong></td>
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<td></td>
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<td>YA9126-BED</td>
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<td>2.3</td>
<td>0.095</td>
<td>0.020</td>
<td>0.460</td>
<td>1 : 0.313</td>
<td>1500</td>
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<td>0.095</td>
<td>0.090</td>
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<td>1 : 0.750</td>
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<td>6</td>
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<tr>
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<td>0.095</td>
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<td>0.350</td>
<td>1 : 1.375</td>
<td>1500</td>
<td>6</td>
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</tbody>
</table>

### 1. Packaging:
- D = 13” machine-ready reel. EIA-481 embossed plastic tape (350 parts per full reel). Quantities less than full reel available: in tape (not machine ready) or with leader and trailer ($25 charge).

### 2. Inductance is for the primary, measured at 150 kHz, 0.1 Vrms, 0 Adc.

### 3. DC current that causes the primary inductance drop 30% from its value without current. Click for temperature derating information.

### 4. Leakage Inductance is for the primary, measured with secondary windings shorted together.

### 5. 1500 Vrms, one minute isolation (hipot) between windings.

### 6. Electrical specifications at 25°C.

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

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### Schematics

**YA9124, YA9125, YA9127, YA9128**

1. Connect pin 1 to 2 and pin 3 to 4 on the PC board

**YA9123, YA9126**

1. Connect pin 1 to 2, 3 to 4, 5 to 6, and pin 7 to 8 on the PC board

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**Coilcraft**

www.coilcraft.com
No-opto Flyback Transformers

L vs Current

Dimensions

Packaging 350/13” reel  Plastic tape: 24 mm wide, 0.50 mm thick, 16 mm pocket spacing, 10.35 mm pocket depth