# Flyback Transformer

For Maxim MAX17597
Flyback Configuration

![Flyback Transformer Image](image)

- Mounted on Maxim MAX17597 Evaluation Kit
- 18 V – 36 V primary input
- 24 V, 0.833 A output
- 1500 Vrms, one minute isolation between primary and secondary

**Core material** Ferrite
**Terminations** RoHS tin-silver-copper (96.5/3.0/0.5) over tin over nickel over phos bronze. Other terminations available at additional cost.
**Weight** 13.4 g

**Ambient temperature** –40°C to +125°C

**Maximum part temperature** 135°C (ambient + temp rise)

**Storage temperature** Component: –40°C to +125°C.
Tray 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**
- 100 parts per tray
- Tested to MIL-STD-202 Method 215 plus an additional aqueous wash. See Doc787_PCB_Washing.pdf.

---

## Specifications

<table>
<thead>
<tr>
<th>Part number</th>
<th>Inductance at 0 Adc(^1) ±10% (µH)</th>
<th>Inductance at Ipk(^2) min (µH)</th>
<th>DCR max (Ohms)</th>
<th>Leakage Inductance(^3) max (µH)</th>
<th>Turns ratio</th>
<th>Ipk(^2) (A)</th>
<th>Output</th>
</tr>
</thead>
<tbody>
<tr>
<td>CU8758-AL</td>
<td>33</td>
<td>26</td>
<td>0.03</td>
<td>0.041</td>
<td>1 : 1.85</td>
<td>3.3</td>
<td>24 V, 0.833 A</td>
</tr>
</tbody>
</table>

1. Inductance is for the primary, measured at 200 kHz, 0.1 Vrms.
2. Peak primary current drawn at minimum input voltage.
3. Leakage inductance is for the primary winding with the secondary winding shorted.
4. Electrical specifications at 25°C.

---

The following pins to be connected on the PC board:
- Pins 1 – 2
- Pins 3 – 4
- Pins 5 – 6
- Pins 7 – 8

---

Dot indicates pin 1

---

**Dimensions**

- The dimensions are in inches and mm.

---

**Recommended PC Board Layout**

---

For Maxim MAX17597 Flyback Configuration

---

Coilcraft

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

© Coilcraft Inc. 2021

This product may not be used in medical or high risk applications without prior Coilcraft approval.

Specification subject to change without notice.

Please check web site for latest information.