## Flyback Transformer for Maxim MAX17595 Flyback Controller

- Mounted on Maxim MAX17595 Evaluation Kit
- Bias winding output: 12 V, 20 mA
- Universal and telecom (36 V – 72 V) input
- 3500 Vrms, one minute primary and bias to secondary isolation

### 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
21.8 g

### Ambient temperature
-40°C to +125°C

### Storage temperature
Component: –40°C to +125°C.
Tray 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

### Package
24 parts per tray

### PCB washing
Tested with pure water or alcohol only. For other solvents, see Doc787_PCB_Washing.pdf.

### Application Notes
- Mounted on Maxim MAX17595 Evaluation Kit
- Bias winding output: 12 V, 20 mA
- Universal and telecom (36 V – 72 V) input
- 3500 Vrms, one minute primary and bias to secondary isolation

### Table 1: Specifications

<table>
<thead>
<tr>
<th>Part number</th>
<th>Inductance at 0 A</th>
<th>DCR max (Ohms)</th>
<th>Leakage Inductance</th>
<th>Turns ratio</th>
<th>Ipk (A)</th>
<th>Output</th>
</tr>
</thead>
<tbody>
<tr>
<td>MA5475-AL</td>
<td>180 ±10% (µH)</td>
<td>0.210</td>
<td>0.016</td>
<td>3.1</td>
<td>0.24</td>
<td>1.024</td>
</tr>
</tbody>
</table>

1. Inductance is for the primary (pins 1 – 2), measured at 100 kHz, 0.1 Vrms.
2. Peak primary current drawn at minimum input voltage.
3. DCR for the secondary is with the windings connected in parallel.
4. Leakage inductance is for the primary winding with the secondary winding shorted.
5. Output is for the secondary. Bias winding output is 12 V, 20 mA.
6. Electrical specifications at 25°C.

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

---

### Flyback Transformer

![Flyback Transformer Diagram](image)

- Dot indicates pin 1
- Dimensions are in inches

---

**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. 2020
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.