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 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)
Packaging 24 parts per tray
PCB washing Tested with pure water or alcohol only. For other solvents, see Doc787_PCB_Washing.pdf.

### Specifications

<table>
<thead>
<tr>
<th>Part number</th>
<th>Inductance at 0 Adc</th>
<th>Inductance at Ipke</th>
<th>DCR max (Ohms)</th>
<th>Leakage Inductance</th>
<th>Turns ratio</th>
<th>Ipke</th>
<th>Output</th>
</tr>
</thead>
<tbody>
<tr>
<td>MA5475-AL</td>
<td>±10% (µH)</td>
<td>(µH)</td>
<td>(µH)</td>
<td>max (µH)</td>
<td>pri : sec</td>
<td>pri : bias</td>
<td>2.0</td>
</tr>
<tr>
<td></td>
<td>180</td>
<td>162</td>
<td>0.210</td>
<td>0.016</td>
<td>0.185</td>
<td>3.1</td>
<td>0.24</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td>1 : 0.24</td>
<td>1 : 0.20</td>
<td>15 V</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.

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Dimensions are in inches

- **Recommended Land Pattern**

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**RoHS/REACH**

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