SMT Flyback Transformer

For Maxim MAX17498B

• Flyback transformer developed for Maxim for the MAX17498B Evaluation Kit
• Designed to operate with +18 Vdc to +36 Vdc input
• 3500 Vrms, one minute isolation primary to secondary windings

Core material  Ferrite
Weight   7.1 g
Terminations  RoHS tin-silver over tin over nickel over phos bronze
Other terminations available at additional cost.
Ambient temperature  −40°C to +85°C
Maximum part temperature  +125°C (ambient + temp 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)
Packaging  200 per 13” reel  Plastic tape: 44 mm wide, 0.4 mm thick, 24 mm pocket spacing, 11.5 mm pocket depth
PCB washing  Tested to MIL-STD-202 Method 215 plus an additional aqueous wash. See Doc787_PCB_Washing.pdf.

<table>
<thead>
<tr>
<th>Part number</th>
<th>L at 0A (µH)</th>
<th>L at Ipk (µH)</th>
<th>DCR max (Ohms)</th>
<th>Leakage inductance max (µH)</th>
<th>Turns ratio pri:sec</th>
<th>Turns ratio pri:aux</th>
<th>Ipk (A)</th>
<th>Output</th>
</tr>
</thead>
<tbody>
<tr>
<td>MA5237-EL</td>
<td>60.0</td>
<td>54.0</td>
<td>0.11/0.035/0.17</td>
<td>0.565</td>
<td>1:0.5</td>
<td>1:0.25</td>
<td>1.5</td>
<td>5 V, 1.5 A</td>
</tr>
</tbody>
</table>

1. When ordering, please specify packaging code:

MA5237-ELD

Packaging:  
D = 13” machine ready reel. EIA-481 embossed plastic tape (200 per full reel). Quantities less than full reel available in tape (not machine ready) or with leader and trailer ($25 charge).
B = Less than full reel. In an effort to simplify our part numbering system, Coilcraft is eliminating the need for multiple packaging codes. When ordering, simply change the last letter of your part number from B to D.

2. Inductance is for the primary, measured at 500 kHz, 0.1 Vrms.
3. Peak primary current drawn at minimum input voltage.
4. DCR for the secondary is with windings connected in parallel.
5. Leakage inductance is for the primary, measured with the secondary windings shorted.
6. Turns ratio is with the the secondary windings connected in parallel.
7. Output of the secondary is with the windings connected in parallel.
Aux winding output is 2.5 V, 20 mA.
8. Electrical specifications at 25°C.

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

The secondary windings are to be connected in parallel on the PC board.

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