Planar Transformer
For National Semiconductor
LM5032 PWM Controller

- Developed for the NSC LM5032 dual interleaved current mode PWM controller for applications up to 100 Watts.
- Can be used in a dual forward converter or in both interleaved power stages of a high-current converter.
- Low leakage inductance, excellent DCR
- Interwinding isolation: 1500 Vdc.

Core material  Ferrite
Terminiations  RoHS Matte tin over nickel over brass
Weight  10.2 g
Ambient temperature  -40°C to +85°C
Storage temperature  Component: -40°C to +85°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, 0.37 mm thick, 32 mm pocket spacing, 9.35 mm pocket depth
PCB washing  Only pure water or alcohol recommended

<table>
<thead>
<tr>
<th>Part number1</th>
<th>Output power (W)</th>
<th>Output voltage nom (V)</th>
<th>Output current (A rms)</th>
<th>Primary inductance2 min (µH)</th>
<th>Leakage inductance3 max (µH)</th>
<th>DCR max (mOhms)</th>
<th>Turns ratio pri: sec</th>
<th>Pri/sec Isolation (Vdc)</th>
</tr>
</thead>
<tbody>
<tr>
<td>C1539-AL_</td>
<td>100</td>
<td>12</td>
<td>8.33</td>
<td>320.0</td>
<td>0.25</td>
<td>63.0</td>
<td>2 : 1</td>
<td>1500</td>
</tr>
</tbody>
</table>

1. When ordering, please specify a packaging code:
   
   C1539-AL(\text{D})

   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 measured on an Agilent/HP 4284 between pins 2 and 4 at 250 kHz, 0.1 Vrms, 0 Adc.
3. Leakage inductance measured between pins 2 and 4 at 100 kHz, 0.1 Vrms, 0 Adc with pins 7 and 9 shorted.
4. Storage and ambient operating temperature range: -40°C to +85°C.
5. Electrical specifications at 25°C.

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

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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.

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Recommended Land Pattern

Dot indicates pin 1

Primary

Secondary

Dimensions are in inches mm

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