SMT Planar Transformers

For Applications up to 300 Watts

1. To order a transformer with an optional auxiliary winding, add an "X" and the turn count after the PL300, e.g., PL300X3-100L.
2. Turn counts of 2, 3, 4, 5, 7 and 9 are available for the auxiliary winding. Transformers with auxiliary windings are not stocked.
3. Inductance measured on an Agilent/HP 4284 at 200 kHz, 0.5 Vrms, 0 Adc between pins 2 and 5 with pins 3 and 4 connected.
4. Leakage inductance measured at 200 kHz, 0.5 Vrms, 0 Adc between pins 2 and 5, with pins 3 and 4 connected, and with all secondary pins shorted.
5. DCR for secondary is measured between pins 7 and 11.
6. Volt-time product is based on primary windings connected in series.
7. Electrical specifications at 25°C.

Refer to Doc 362 "Soldering Surface Mount Components" before soldering.

<table>
<thead>
<tr>
<th>Part number</th>
<th>Primary turns</th>
<th>Primary inductance</th>
<th>Leakage inductance</th>
<th>DCR max (mOhms)</th>
<th>Volt-time product typ5</th>
<th>Height max</th>
<th>Core material</th>
<th>Ferrite</th>
</tr>
</thead>
<tbody>
<tr>
<td>PL300-100L</td>
<td>4 4</td>
<td>287</td>
<td>0.25</td>
<td>7.2</td>
<td>206</td>
<td>0.410/10.4</td>
<td>Matte tin over nickel over brass.</td>
<td></td>
</tr>
<tr>
<td>PL300-101L</td>
<td>5 5</td>
<td>448</td>
<td>0.35</td>
<td>9.0</td>
<td>258</td>
<td>0.410/10.4</td>
<td>Matte tin over nickel over brass.</td>
<td></td>
</tr>
<tr>
<td>PL300-102L</td>
<td>6 6</td>
<td>635</td>
<td>0.50</td>
<td>10.6</td>
<td>310</td>
<td>0.450/11.4</td>
<td>Matte tin over nickel over brass.</td>
<td></td>
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<tr>
<td>PL300-103L</td>
<td>7 7</td>
<td>864</td>
<td>0.75</td>
<td>12.3</td>
<td>361</td>
<td>0.450/11.4</td>
<td>Matte tin over nickel over brass.</td>
<td></td>
</tr>
<tr>
<td>PL300-104L</td>
<td>8 8</td>
<td>1075</td>
<td>1.0</td>
<td>13.8</td>
<td>413</td>
<td>0.475/12.1</td>
<td>Matte tin over nickel over brass.</td>
<td></td>
</tr>
</tbody>
</table>
PL300 Series SMT Planar Transformers

Dot indicates pin 1

Part number Height max (in / mm)
PL300-100L 0.410 / 10.4
PL300-101L 0.410 / 10.4
PL300-102L 0.450 / 11.4
PL300-103L 0.450 / 11.4
PL300-104L 0.475 / 12.1

Recommended Land Pattern

Dimensions are in inches / mm

RoHS Compliant

AEC-Q000-100C