Surface Mount Current Sense Transformer

ELECTRICAL SPECIFICATIONS

Primary Inductance (1, 2 to 3, 4): 36 μH ± 20 % at 0.1 V_RMS, 100 kHz

Primary DC Current (continuous): 0.95 A (DC) for temperature rise of 30 °C max.

Primary Incremental Current (or peak current): 1.33 A (DC) typical for less than 20 % reduction of inductance

Primary DC Resistance (1, 2 to 3, 4): 0.150 Ω max.

Secondary DC Resistance (6 to 7): 0.300 Ω max.

Turns Ratio: pri : sec = 1.0 : 1.0

Hipot Voltage: 500 V (AC), 5 s (between primary and secondary windings and to core)

Operating Temperature Range: -20 °C to +85 °C

Note

- Terminals 1, 2 and 3, 4 must be tied together for proper operation of the transformer primary

<table>
<thead>
<tr>
<th>MODEL</th>
<th>PRIMARY IND. MIN. (μH)</th>
<th>PRIMARY IND. TOL.</th>
<th>PRIMARY DCR MAX. (Ω)</th>
<th>PRIMARY MAX. RATED DC CURRENT (A)</th>
</tr>
</thead>
<tbody>
<tr>
<td>LPE-4841-A307</td>
<td>36</td>
<td>± 20 %</td>
<td>0.150</td>
<td>0.95</td>
</tr>
</tbody>
</table>

DIMENSIONS in inches [millimeters]

SCHEMATIC
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