Common Mode Line Choke  P104

Designed to reduce line conducted interference (LCI) in power switching applications at 10 kHz or higher. This part designed to meet U.L. and V.D.E. specifications.

This product is not RoHS-compliant. An optional RoHS-compliant version is available as part number P104L. Contact Coilcraft for stock status.

Core material  Ferrite  
Terminations  Tin-silver over tin over copper.  
Weight  21.2 g  
Ambient temperature  –40°C to +85°C  
Storage temperature  Component: –40°C to +85°C.  
Tray packaging: –40°C to +80°C  
Moisture Sensitivity Level (MSL)  1 (unlimited floor life at <30°C / 85% relative humidity)  
Failures in Time (FIT) / Mean Time Between Failures (MTBF)  38 per billion hours / 26,315,789 hours, calculated per Telcordia SR-332  
Packaging  30 parts per tray  
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>Inductance per winding¹ min (mH)</th>
<th>Differential mode inductance² max (µH)</th>
<th>DCR max (Ohms)</th>
<th>Input current max (A)</th>
<th>Winding imbalance</th>
<th>Isolation³ (Vrms)</th>
</tr>
</thead>
<tbody>
<tr>
<td>P104</td>
<td>2.7</td>
<td>75</td>
<td>0.2</td>
<td>2.0</td>
<td>&lt;1%</td>
<td>3750</td>
</tr>
</tbody>
</table>

1. Inductance is measured at 15.75 kHz, 0.1 Vrms, 0 Adc from pins 2 – 4 or 7 – 9.  
2. Differential mode inductance is measured at 15.75 kHz, 0.1 Vrms, 0 Adc across pins 2 – 9, with pins 4 – 7 shorted.  
3. Isolation (hipot) tested between windings for one minute.  
4. Electrical specifications at 25°C.

1.2 30.5 max  
0.850 max  21.59  
0.62 15.75  
0.145 ± 0.025  3.68 ± 0.635  
Dimensions are in inches

Recommended PC Board Layout

Bottom view

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.