MIL-PRF-27/368 Qualified
Surface Mount Power Inductors

Physical Parameters

<table>
<thead>
<tr>
<th></th>
<th>Inches</th>
<th>Millimeters</th>
</tr>
</thead>
<tbody>
<tr>
<td>A</td>
<td>0.166 to 0.190</td>
<td>4.22 to 4.83</td>
</tr>
<tr>
<td>B</td>
<td>0.118 to 0.134</td>
<td>3.00 to 3.40</td>
</tr>
<tr>
<td>C</td>
<td>0.118 to 0.134</td>
<td>3.00 to 3.40</td>
</tr>
<tr>
<td>D</td>
<td>0.015 Min.</td>
<td>0.38 Min.</td>
</tr>
<tr>
<td>E</td>
<td>0.054 to 0.078</td>
<td>1.37 to 1.98</td>
</tr>
<tr>
<td>F</td>
<td>0.118 (Ref. only)</td>
<td>3.00 (Ref. only)</td>
</tr>
<tr>
<td>G</td>
<td>0.066 (Ref. only)</td>
<td>1.68 (Ref. only)</td>
</tr>
</tbody>
</table>

Dimensions “A” and “C” are over terminals

Operating Temperature Range  
-55°C to +130°C

Current Rating at 90°C Ambient  
40°C Rise

Maximum Power Dissipation at 90°C  
0.278 W

Inductance  
Measured at 1V with no DC current

Incremental Current  
The current at which the inductance will decrease by a maximum of 5% from its inductance at zero DC current.

Marking  
Military Part Number: MP1812 followed by the dash number with tolerance letter; date code (YYWWL).

Example: MILP1812-103K
M27/368-13
MP1812-103K
0905A

Packaging  
Tape & reel (12mm): 7” reel, 650 pieces max.; 13” reel, 2500 pieces max.

Lead Finish  
Sn63Pb37
(Tin-Lead) Hot Solder Dipped

Made In the U.S.A.