Surface Mount Power Inductors

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**Physical Parameters**

<table>
<thead>
<tr>
<th>Inches</th>
<th>Millimeters</th>
</tr>
</thead>
<tbody>
<tr>
<td>A</td>
<td>0.350 to 0.370</td>
</tr>
<tr>
<td>B</td>
<td>0.180 to 0.200</td>
</tr>
<tr>
<td>C</td>
<td>0.165 to 0.185</td>
</tr>
<tr>
<td>D</td>
<td>0.050 Min.</td>
</tr>
<tr>
<td>E</td>
<td>0.050 to 0.070</td>
</tr>
<tr>
<td>F</td>
<td>0.200 (Ref. Only)</td>
</tr>
</tbody>
</table>

**Dimensions** *A* and *C* are over terminals.

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

**Current Rating at 85°C Ambient** 45°C Rise

**Maximum Power Dissipation at 90°C** 0.414 W

**Inductance Measured at 1VAC with no DC Current**

**Incremental Current** The current at which the inductance will be decreased by a maximum of 10% from its initial DC value.

**Marking** Delevan; dash number followed by a P; and date code/lot symbol (YYWW). Note: An R before the date code/lot symbol indicates an RoHS Compliant choke.

**Terminal Material and Final Finish**

Series P3519: (Tin-Lead) Sn63Pb37 over (Copper) Cu

Series P3519R: (Tin-Silver-Copper) Sn96.5Ag3.0Cu0.5 over (Copper) Cu

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**Weight/Mass** 0.490 Grams Maximum

**Packaging** Tape & reel (24mm): 13” reel, 1500 pieces max.

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**Tolerances:**

- J = ±5%  K = ±10%

(±5% Tolerance is Standard for Values Above 0.68uH)

*Complete part # must include series # PLUS the dash #*

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**All product specifications and data contained herein are subject to change without notice to improve reliability, function, performance, design or otherwise.**

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**Made in the U.S.A.**

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Inductance vs. Frequency

- **SERIES P3 51 9R**
- **P3 519**

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Inductance vs. Frequency

The above waveforms have been composed from data taken from a Wayne Kerr 3260B Precision Magnetics Analyzer and Hewlett Packard 4191A RF Impedance Analyzer.