**Serial**

**Micro i° Chip Inductors**

**Military Specifications**  MIL-PRF-83446/04

**Physical Parameters**

<table>
<thead>
<tr>
<th></th>
<th>Inches</th>
<th>Millimeters</th>
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</thead>
<tbody>
<tr>
<td>A</td>
<td>0.075 Max.</td>
<td>1.91 Max.</td>
</tr>
<tr>
<td>B</td>
<td>0.100 ± 0.010</td>
<td>2.54 ± 0.25</td>
</tr>
<tr>
<td>C</td>
<td>0.100 ± 0.010</td>
<td>2.54 ± 0.25</td>
</tr>
<tr>
<td>D</td>
<td>0.050 Min.</td>
<td>1.27 Min.</td>
</tr>
<tr>
<td>E</td>
<td>0.015 Min. (Typ.)</td>
<td>0.38 Min. (Typ.)</td>
</tr>
<tr>
<td>F</td>
<td>0.020 Max. (Typ.)</td>
<td>0.51 Max. (Typ.)</td>
</tr>
</tbody>
</table>

**Weight Max. (Grams)** 0.03

**Current Rating at 90°C Ambient** 35°C Rise

**Operating Temperature Range** -55°C to +125°C

**Maximum Power Dissipation at 90°C** 0.135 Watts

**Note**

- Self Resonant Frequency (SRF) Values above 250 MHz are calculated and for reference only.

**Termination Finish Options (Part # Code)**

- Gold over Nickel (Standard): As shown.
- Tin/Lead over Nickel: Add suffix “S” to part # (e.g., 103-102KS).
- Mil type “A”: Gold over Nickel (Standard)
- Mil type “B” or “F”: Tin/Lead (solder) over Nickel.
- RoHS type: Order 103R - XXXKS

**Mechanical Configuration**

Units are epoxy encapsulated.

Contact areas for reflow soldering are gold plated per MIL-G-45204 Type 1-Grade A. Internal connections are thermal compression bonded.

**Packaging** Tape & reel (8mm): 7” reel, 2000 pieces max.; 13” reel, 8000 pieces max.

**Made In the U.S.A.**