Inductance Range: 0.47~10 µH

**FEATURES**

- Miniature size: 2520 footprint (2.5mm x 2.0mm) and low profile (1.2mm Max. height)
- The use of magnetic iron powder ensures capability for large current.
- The use of flat wire for low DC resistance.
- Magnetically shielded, low audible core noise.
- Reflow solderable.
- Operating temperature: -40 ~ +85°C

**STANDARD PART NUMBERS**

<table>
<thead>
<tr>
<th>Part Number</th>
<th>Inductance (µH)</th>
<th>Tolerance (%)</th>
<th>Test Frequency (MHz)</th>
<th>DC Resistance (mΩ) Max. (Typ.)</th>
<th>Inductance Decrease Current (A) Max. (Typ.) ΔL/L = 30%</th>
<th>Temperature Rise Current (A) Max. (Typ.) ΔT=40°C</th>
</tr>
</thead>
<tbody>
<tr>
<td>1239AS-H-4R7M-P2</td>
<td>4.7 ±20</td>
<td>1</td>
<td>240 (200)</td>
<td>14 (1.7)</td>
<td>1.3 (1.5)</td>
<td></td>
</tr>
<tr>
<td>1239AS-H-6R0M-P2</td>
<td>6.0 ±20</td>
<td>1</td>
<td>275 (240)</td>
<td>1.6 (1.9)</td>
<td>1.1 (1.3)</td>
<td></td>
</tr>
<tr>
<td>1239AS-H-6R8M-P2</td>
<td>6.8 ±20</td>
<td>1</td>
<td>375 (310)</td>
<td>1.3 (1.6)</td>
<td>1.0 (1.2)</td>
<td></td>
</tr>
<tr>
<td>1239AS-H-100M-P2</td>
<td>10 ±20</td>
<td>1</td>
<td>460 (400)</td>
<td>1.0 (1.3)</td>
<td>0.85 (1.0)</td>
<td></td>
</tr>
</tbody>
</table>

(1) DC resistance is measured with a LCR meter 4284A (Agilent Technologies) or equivalent. Test frequency at 1MHz.

(2) The use of a magnetic iron powder ensures capability for large current.

(3) Maximum allowable DC current is the maximum current that causes a 30% inductance reduction from the initial value, coil temperature to rise by 40°C whichever is smaller.

(Reference ambient temperature 20°C)

(1) Inductance is measured with a LCR meter 4284A (Agilent Technologies) or equivalent. Test frequency at 1MHz.

(2) DC resistance is measured with 34420A (Agilent Technologies) or 3541(HIOKI). (Reference ambient temperature 20°C)

(3) Maximum allowable DC current is the maximum current that causes a 30% inductance reduction from the initial value, coil temperature to rise by 40°C whichever is smaller.

(Reference ambient temperature 20°C)