MULTILAYER CHIP INDUCTOR FOR HIGH FREQUENCY
HK SERIES

**FEATURES**
- Multilayer inductor made of advanced ceramics with low-resistivity silver used as internal conductors provides excellent Q and SRF characteristics.
- Designed to address surface mount inductor needs for applications above 100MHz.
- Multilayer block structure ensures outstanding reliability, high productivity and product quality.

**APPLICATIONS**
- Portable telephones, PHS and pagers
- Miscellaneous high-frequency circuits
- EMI countermeasure in high-frequency circuits.

**ORDERING CODE**

1. **Type**
   - HK Multilayer chip inductors for high frequency

2. **External Dimensions (mm)**
   - 1005: 1.0 x 0.5
   - 1608: 1.6 x 0.8
   - 2125: 2.0 x 1.25

3. **Nominal Inductance (μH)**
   - 3N9: 0.0039
   - 10N: 0.01
   - R12: 0.12

4. **Inductance Tolerances**
   - J: ±5%
   - K: ±10%
   - S: ±0.3μH

5. **Packaging**
   - T: Tape & Reel

**Examples**

HK 1005 10N J 3N9 0.0039

**Opertating Temp.**

- 1005: -55~125°C
- 1608: -40~+85°C
- 2125: -40~+85°C
**Available Inductance Range**

<table>
<thead>
<tr>
<th>Type</th>
<th>L</th>
<th>W</th>
<th>T</th>
<th>e</th>
</tr>
</thead>
<tbody>
<tr>
<td>HK1005</td>
<td>1.00±0.05</td>
<td>0.50±0.05</td>
<td>0.50±0.05</td>
<td>0.25±0.10</td>
</tr>
<tr>
<td>HK1608</td>
<td>1.6±0.15</td>
<td>0.8±0.15</td>
<td>0.8±0.15</td>
<td>0.3±0.2</td>
</tr>
<tr>
<td>HK2125</td>
<td>2.6±0.3</td>
<td>1.25±0.2</td>
<td>0.85±0.2</td>
<td>0.5±0.3</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Induction [nH]</th>
<th>Type</th>
<th>Imax [mA]</th>
<th>Rdcmax [Ω]</th>
<th>Imax [mA]</th>
<th>Rdcmax [Ω]</th>
<th>Imax [mA]</th>
<th>Rdcmax [Ω]</th>
</tr>
</thead>
<tbody>
<tr>
<td>1.0</td>
<td>HK1005</td>
<td>300</td>
<td>0.13</td>
<td>300</td>
<td>0.10</td>
<td>300</td>
<td>0.10</td>
</tr>
<tr>
<td>1.0</td>
<td>HK1608</td>
<td>300</td>
<td>0.42</td>
<td>300</td>
<td>0.26</td>
<td>300</td>
<td>0.30</td>
</tr>
<tr>
<td>1.5</td>
<td>HK2125</td>
<td>300</td>
<td>1.60</td>
<td>300</td>
<td>1.00</td>
<td>300</td>
<td>0.90</td>
</tr>
</tbody>
</table>

**External Dimensions**

- **Unit**: mm/inch

---

**Selection Guide**

- **Part Numbers**
- **Electrical Characteristics**
- **Packaging**
- **Reliability Data**
- **Precautions**