HIGH CURRENT SURFACE-MOUNT CERAMIC WIRE-WOUND INDUCTORS  
LQH1206C SERIES

FEATURES:
- Ceramic Core  
- High Frequency Design  
- Lower DCR permits High Idc  
- Available in E12 series  
- Excellent Q, SRF Values  
- Lead free versions  
- RoHS compliant  
- Excellent Thermal Stability

OPTIONS:
- Tape & Reel is Standard  
  (Qty:2000pcs.)  
- Bulk packaging Available  
  for Smaller Quantities  
- Tolerance: K=10%, M=20% is  
  Standard, Tighter Tolerances Available

COMMON APPLICATIONS:
- Modems  
- PDP, LCD TVs converter  
- Mobile Radios  
- DC/DC converter  
- Cordless Telephones  
- Car radios  
- Global Positioning Systems  
- Wireless Communications Equipment  
- Networking System, xDSL Filter  
- Computer Products and Peripherals

PHYSICAL CHARACTERISTICS

STANDARD SPECIFICATION

<table>
<thead>
<tr>
<th>Part Number (LQH 1206C Series)</th>
<th>L (μH)</th>
<th>L Test Freq (kHz)</th>
<th>Q (Min)</th>
<th>Q Test Freq (MHz)</th>
<th>SRF (MHz)</th>
<th>DCR (Ω, Max)</th>
<th>IDC (mA, Max)</th>
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</thead>
<tbody>
<tr>
<td>LQH–1206C–R12M</td>
<td>0.12</td>
<td>1</td>
<td>10</td>
<td>1</td>
<td>250</td>
<td>0.112</td>
<td>970</td>
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<td>250</td>
<td>0.140</td>
<td>850</td>
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<td>10</td>
<td>1</td>
<td>180</td>
<td>0.210</td>
<td>700</td>
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<td>1</td>
<td>20</td>
<td>1</td>
<td>100</td>
<td>0.392</td>
<td>510</td>
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<td>50</td>
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<td>100</td>
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<td>LQH–1206C–101K</td>
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<td>0.796</td>
<td>7.0</td>
<td>16.8</td>
<td>80</td>
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</table>

Note: 1. K=±10%, M=±20%

DIMENSIONS:

INCHES

mm

ELECTRONICAL SCHEMATIC

TECHNICAL INFORMATION

- Inductance Testing: HP4231A, HP16193A, HP4286A or equivalent  
- Re: QuadTech 1880 Milliohmeter  
- Q: HP3442A  
- SRF: HP4191A  
- Rated Current: L value drop 10% typ at 10°C  
- Initial value  
- Temperature rise 40°C Max Reference ambient temperature  
- Solderability: 75% of the terminal electrode shall be covered  
- Soldering Methods: Wave, Reflow  
- Operating Temperature: -25°C to +85°C  
- Storage Temperature: -55°C to +125°C

Note: All specifications subject to change without notice.