Power Choke High Current PCHC1250R7

<table>
<thead>
<tr>
<th>Allied Part Number</th>
<th>Inductance (µH)</th>
<th>Tolerance (%)</th>
<th>Test Freq. (KHz, 0.5V)</th>
<th>DCR (mΩ) Max</th>
<th>Isat (A) Typ</th>
<th>Irms (A) Typ</th>
</tr>
</thead>
<tbody>
<tr>
<td>PCHC1250R7-R47M-RC</td>
<td>0.47</td>
<td>20</td>
<td>100</td>
<td>1.2</td>
<td>46</td>
<td>37</td>
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<tr>
<td>PCHC1250R7-1R0M-RC</td>
<td>1.0</td>
<td>20</td>
<td>100</td>
<td>2.5</td>
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<td>29</td>
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<tr>
<td>PCHC1250R7-4R7M-RC</td>
<td>4.7</td>
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<td>100</td>
<td>11.5</td>
<td>16</td>
<td>11</td>
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<td>PCHC1250R7-6R8M-RC</td>
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<td>100</td>
<td>22.0</td>
<td>14</td>
<td>9</td>
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<td>PCHC1250R7-100M-RC</td>
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<td>20</td>
<td>100</td>
<td>22.0</td>
<td>13</td>
<td>7</td>
</tr>
</tbody>
</table>

All specifications subject to change without notice.

**Features**
- Magnetically shielded construction
- High saturation current up to 46A
- Expanded operating temp range
- Low DC Resistance
- Suitable for pick and place

**Electrical**
- **Inductance Range**: .47µH to 10µH
- Additional values available
- **Tolerance**: 20% over entire range, Available in tighter tolerances
- **Test Frequency**: 100KHz, 0.5Vdc
- **Operating Temp**: -55°C ~ +125°C
- **Storage Temp**: -55°C ~ +125°C
- **Irms Current**: \( \Delta T = 40°C \) Typical at heat rate current.
- **Isat Current**: 30% typical at rated Isat Part Temperature should not exceed 125°C including temperature rise.

**Resistance to Soldering Heat**
- Pre-Heat 150°C, 1 minute.
- **Solder Composition**: Sn/Ag3.0/Cu0.5
- **Solder Temp**: 260°C ± 5°C
- **Immersion Time**: 10 sec. ± 1 sec.

**Test Equipment**
- (L): WK 3260B
- (DCR): Chen HWA502
- (IDC): 3260B WK & DC Bias 3265BWK

**Physical**
- **Packaging**: 500 pieces per 13 inch reel.
- **Marking**: EIA Inductance Code