Power Inductor - Pin Type: RCH Series

**Type: RCH-855**

◆ **Product Description**
- 8.3mm Max. φ, 5.5mm Max. Height.
- Inductance Range: 2.5 μH ~ 10mH
- Rated current range: 37mA ~ 3.1A
- In addition to the standard versions of inductors shown here, custom inductors are available to meet your exact requirements.

◆ **Feature**
- Magnetically unshielded construction.
- Ideally Used in Printers, LCD TV, DVD, Printer, Copy Machine, Mainboard of the compounding machines, etc as Power Supplies’s Inductors or DC-DC Converter inductors.
- RoHS Compliance

◆ **Dimensions (mm)**

Please refer to the sales offices on our website for a representative near you

www.sumida.com
<table>
<thead>
<tr>
<th>Part Name</th>
<th>Stamp</th>
<th>Inductance $&lt;\text{Within}&gt;(\mu\text{H})$ $\pm 10%$</th>
<th>D.C.R ($\Omega$ $&lt;\text{Max.}&gt;$ (at $20^\circ\text{C}$))</th>
<th>Saturation Current (A) $\pm 10%$</th>
<th>Temperature rise current (A) $\pm 10%$</th>
</tr>
</thead>
<tbody>
<tr>
<td>RCH855NP-2R5M</td>
<td>2R5M</td>
<td>2.5 ± 20%</td>
<td>23m</td>
<td>4.5</td>
<td>3.1</td>
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<tr>
<td>RCH855NP-3R3M</td>
<td>3R3M</td>
<td>3.3 ± 20%</td>
<td>26m</td>
<td>4.0</td>
<td>2.7</td>
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<tr>
<td>RCH855NP-4R1M</td>
<td>4R1M</td>
<td>4.1 ± 20%</td>
<td>31m</td>
<td>3.6</td>
<td>2.5</td>
</tr>
<tr>
<td>RCH855NP-5R0M</td>
<td>5R0M</td>
<td>5.0 ± 20%</td>
<td>34m</td>
<td>3.4</td>
<td>2.4</td>
</tr>
<tr>
<td>RCH855NP-5R9M</td>
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<td>5.9 ± 20%</td>
<td>39m</td>
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<td>2.2</td>
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<tr>
<td>RCH855NP-6R8M</td>
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<td>6.8 ± 20%</td>
<td>42m</td>
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<td>2.1</td>
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<tr>
<td>RCH855NP-8R2M</td>
<td>8R2M</td>
<td>8.2 ± 20%</td>
<td>45m</td>
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<td>1.9</td>
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<tr>
<td>RCH855NP-10ØM</td>
<td>10M</td>
<td>10 ± 20%</td>
<td>70m</td>
<td>2.5</td>
<td>1.3</td>
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<tr>
<td>RCH855NP-12ØM</td>
<td>120M</td>
<td>12 ± 20%</td>
<td>80m</td>
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<td>1.1</td>
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<tr>
<td>RCH855NP-15ØM</td>
<td>150M</td>
<td>15 ± 20%</td>
<td>90m</td>
<td>2.1</td>
<td>0.95</td>
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<tr>
<td>RCH855NP-18ØM</td>
<td>180M</td>
<td>18 ± 20%</td>
<td>100m</td>
<td>2.0</td>
<td>0.90</td>
</tr>
<tr>
<td>RCH855NP-22ØK</td>
<td>220K</td>
<td>22 ± 10%</td>
<td>120m</td>
<td>1.7</td>
<td>0.77</td>
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<tr>
<td>RCH855NP-27ØK</td>
<td>270K</td>
<td>27 ± 10%</td>
<td>140m</td>
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<tr>
<td>RCH855NP-33ØK</td>
<td>330K</td>
<td>33 ± 10%</td>
<td>170m</td>
<td>1.4</td>
<td>0.67</td>
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<tr>
<td>RCH855NP-39ØK</td>
<td>390K</td>
<td>39 ± 10%</td>
<td>210m</td>
<td>1.3</td>
<td>0.59</td>
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<tr>
<td>RCH855NP-47ØK</td>
<td>470K</td>
<td>47 ± 10%</td>
<td>240m</td>
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<tr>
<td>RCH855NP-56ØK</td>
<td>560K</td>
<td>56 ± 10%</td>
<td>0.31</td>
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<td>0.50</td>
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<tr>
<td>RCH855NP-68ØK</td>
<td>680K</td>
<td>68 ± 10%</td>
<td>0.34</td>
<td>1.0</td>
<td>0.47</td>
</tr>
<tr>
<td>RCH855NP-82ØK</td>
<td>820K</td>
<td>82 ± 10%</td>
<td>0.40</td>
<td>0.93</td>
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</tr>
<tr>
<td>RCH855NP-101K</td>
<td>101K</td>
<td>100 ± 10%</td>
<td>0.52</td>
<td>0.81</td>
<td>0.37</td>
</tr>
<tr>
<td>RCH855NP-121K</td>
<td>121K</td>
<td>120 ± 10%</td>
<td>0.59</td>
<td>0.76</td>
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<tr>
<td>RCH855NP-151K</td>
<td>151K</td>
<td>150 ± 10%</td>
<td>0.71</td>
<td>0.67</td>
<td>0.32</td>
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<tr>
<td>RCH855NP-181K</td>
<td>181K</td>
<td>180 ± 10%</td>
<td>0.89</td>
<td>0.62</td>
<td>0.30</td>
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<tr>
<td>RCH855NP-221K</td>
<td>221K</td>
<td>220 ± 10%</td>
<td>1.04</td>
<td>0.54</td>
<td>0.28</td>
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<tr>
<td>RCH855NP-271K</td>
<td>271K</td>
<td>270 ± 10%</td>
<td>1.28</td>
<td>0.49</td>
<td>0.25</td>
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<tr>
<td>RCH855NP-331K</td>
<td>331K</td>
<td>330 ± 10%</td>
<td>1.47</td>
<td>0.44</td>
<td>0.23</td>
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<tr>
<td>RCH855NP-391K</td>
<td>391K</td>
<td>390 ± 10%</td>
<td>1.67</td>
<td>0.41</td>
<td>0.22</td>
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<tr>
<td>RCH855NP-471K</td>
<td>471K</td>
<td>470 ± 10%</td>
<td>1.95</td>
<td>0.38</td>
<td>0.20</td>
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<tr>
<td>RCH855NP-561K</td>
<td>561K</td>
<td>560 ± 10%</td>
<td>2.83</td>
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<tr>
<td>RCH855NP-681K</td>
<td>681K</td>
<td>680 ± 10%</td>
<td>3.25</td>
<td>0.32</td>
<td>0.15</td>
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<tr>
<td>RCH855NP-821K</td>
<td>821K</td>
<td>820 ± 10%</td>
<td>3.82</td>
<td>0.31</td>
<td>0.14</td>
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<tr>
<td>RCH855NP-102K</td>
<td>102K</td>
<td>1000 ± 10%</td>
<td>5.28</td>
<td>0.25</td>
<td>0.12</td>
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<tr>
<td>RCH855NP-122K</td>
<td>122K</td>
<td>1200 ± 10%</td>
<td>6.03</td>
<td>0.23</td>
<td>0.11</td>
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<tr>
<td>RCH855NP-152K</td>
<td>152K</td>
<td>1500 ± 10%</td>
<td>7.15</td>
<td>0.21</td>
<td>0.99</td>
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<tr>
<td>RCH855NP-182K</td>
<td>182K</td>
<td>1800 ± 10%</td>
<td>8.26</td>
<td>0.20</td>
<td>0.90</td>
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<tr>
<td>RCH855NP-222K</td>
<td>222K</td>
<td>2200 ± 10%</td>
<td>11.1</td>
<td>0.18</td>
<td>0.81</td>
</tr>
<tr>
<td>RCH855NP-272K</td>
<td>272K</td>
<td>2700 ± 10%</td>
<td>13.1</td>
<td>0.16</td>
<td>0.77</td>
</tr>
</tbody>
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### Type: RCH-855

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<tr>
<th>Part Name</th>
<th>Stamp</th>
<th>Inductance &lt;Within&gt;(μ H) ※1</th>
<th>D.C.R(Ω) &lt;Max.&gt; (at20℃)</th>
<th>Saturation Current (A) ※2</th>
<th>Temperature rise current (A) ※3</th>
</tr>
</thead>
<tbody>
<tr>
<td>RCH855NP-332K</td>
<td>332K</td>
<td>3300±10%</td>
<td>15.9</td>
<td>0.14</td>
<td>68m</td>
</tr>
<tr>
<td>RCH855NP-392K</td>
<td>392K</td>
<td>3900±10%</td>
<td>18.0</td>
<td>0.13</td>
<td>65m</td>
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<tr>
<td>RCH855NP-472K</td>
<td>472K</td>
<td>4700±10%</td>
<td>23.9</td>
<td>0.12</td>
<td>56m</td>
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<tr>
<td>RCH855NP-562K</td>
<td>562K</td>
<td>5600±10%</td>
<td>26.8</td>
<td>0.11</td>
<td>53m</td>
</tr>
<tr>
<td>RCH855NP-682K</td>
<td>682K</td>
<td>6800±10%</td>
<td>31.7</td>
<td>0.11</td>
<td>49m</td>
</tr>
<tr>
<td>RCH855NP-822K</td>
<td>822K</td>
<td>8200±10%</td>
<td>46.5</td>
<td>0.11</td>
<td>40m</td>
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<tr>
<td>RCH855NP-1Ø3K</td>
<td>103K</td>
<td>10000±10%</td>
<td>55.7</td>
<td>0.11</td>
<td>37m</td>
</tr>
</tbody>
</table>

※1: Measuring Frequency: 2.5 μH ~ 8.2 μH at 7.96MHz
10 μH ~ 82 μH at 2.52 MHz
100 μH ~ 10000 μH at 1 kHz

※2: Saturation current: The DC current at which the inductance decreases to 90% of its initial value.

※3: Temperature rise current: The DC current at which the temperature rise is △t = 20℃ (Ta = 20℃).