RCB1618P SERIES~ Through Hole Power Inductors

PART NUMBERING SYSTEM

<table>
<thead>
<tr>
<th>RCB</th>
<th>1618P</th>
<th>—</th>
<th>100M</th>
<th>—</th>
<th>LF</th>
</tr>
</thead>
<tbody>
<tr>
<td>TYPE</td>
<td>DIMENSIONS</td>
<td>INDUCTANCE</td>
<td>LEAD FREE</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

U : UL Tube ;  P : PET Tube

SHAPES AND DIMENSIONS

UNIT : mm

A= 18.0 Max. , B= 10.0±0.5 , C= 15.0±5.0 , D= 20.0 Max. , E= 1.0 Ref.

STRUCTURAL DIAGRAM :

<table>
<thead>
<tr>
<th>COMPONENT</th>
<th>MATERIALS</th>
</tr>
</thead>
<tbody>
<tr>
<td>1.Core</td>
<td>Ferrite core</td>
</tr>
<tr>
<td>2.Wire</td>
<td>Polyurethane enameled copper wires</td>
</tr>
<tr>
<td>3.Lead wire</td>
<td>Tinned copper wires</td>
</tr>
<tr>
<td>4.Tube</td>
<td>Heat shrinkable tube, PET or UL</td>
</tr>
<tr>
<td>5.Glue</td>
<td>Epoxy resin</td>
</tr>
</tbody>
</table>
### Spec II.

**RCB1618P SERIES~ Through Hole Power Inductors**

**SPECIFICATION TABLE**

<table>
<thead>
<tr>
<th>PART NUMBER</th>
<th>INDUCTANCE ($\mu$H)</th>
<th>DCR (mΩ) (max)</th>
<th>IDC (A) (max)</th>
<th>TEST FREQ. (f)</th>
</tr>
</thead>
<tbody>
<tr>
<td>RCB1618-100M-LF</td>
<td>10</td>
<td>9</td>
<td>8.0</td>
<td>1KHz</td>
</tr>
<tr>
<td>RCB1618-250K-LF</td>
<td>25</td>
<td>22</td>
<td>6.0</td>
<td>1KHz</td>
</tr>
<tr>
<td>RCB1618-500K-LF</td>
<td>50</td>
<td>36</td>
<td>4.0</td>
<td>1KHz</td>
</tr>
<tr>
<td>RCB1618-101K-LF</td>
<td>100</td>
<td>90</td>
<td>3.0</td>
<td>1KHz</td>
</tr>
<tr>
<td>RCB1618-251K-LF</td>
<td>250</td>
<td>150</td>
<td>2.0</td>
<td>1KHz</td>
</tr>
<tr>
<td>RCB1618-501K-LF</td>
<td>500</td>
<td>300</td>
<td>1.2</td>
<td>1KHz</td>
</tr>
<tr>
<td>RCB1618-101K-LF</td>
<td>1000</td>
<td>600</td>
<td>1.0</td>
<td>1KHz</td>
</tr>
</tbody>
</table>

1. Inductors Tolerance: $K = \pm 10\%$; $M = \pm 20\%$
2. Operating temperature range -40°C to +85°C
3. Electrornical specifications at 25°C