Multilayer Ferrite Beads

FEATURES
- High reliability.
- Surface mountable.
- Temperature range: -55°C to +125°C.

MECHANICAL SPECIFICATIONS
Solderability: 95% coverage after 5 second dip in +230°C solder following a 60 second pre-heat @ +120°C and unactivated flux dip.
Resistance to Solder Heat: 10 seconds in +260°C solder after pre-heat and flux dip.
Terminal Strength: 2.2 pounds (1 kilogram) minimum applied perpendicular to .126" [3.20mm] dimension for 30 seconds.

Beam Strength: 4.4 pounds (2 kilograms) minimum for 5 seconds.

NOTE: Impedance will remain ±20% of initial reading and no physical defects shall be observed.

ENVIRONMENTAL SPECIFICATIONS
Thermal Shock: 50 cycles, -55°C to +125°C.
Humidity: 90% RH @ +40°C with 200mA DC current, 500 hours.
Load Life: +90°C @ full rated current for 2000 hours.

NOTE: Impedance will vary no more than ±20% from initial.

STANDARD ELECTRICAL SPECIFICATIONS

<table>
<thead>
<tr>
<th>IMPEDANCE (Ohms)</th>
<th>TOL.</th>
<th>FREQUENCY (MHz)</th>
<th>DCR MAX. (Ohms)</th>
<th>RATED DC CURRENT (mA)</th>
</tr>
</thead>
<tbody>
<tr>
<td>19</td>
<td>± 25%</td>
<td>100</td>
<td>0.05</td>
<td>500</td>
</tr>
<tr>
<td>26</td>
<td>± 25%</td>
<td>100</td>
<td>0.05</td>
<td>500</td>
</tr>
<tr>
<td>31</td>
<td>± 25%</td>
<td>100</td>
<td>0.05</td>
<td>500</td>
</tr>
<tr>
<td>50</td>
<td>± 25%</td>
<td>100</td>
<td>0.10</td>
<td>350</td>
</tr>
<tr>
<td>70</td>
<td>± 25%</td>
<td>100</td>
<td>0.15</td>
<td>250</td>
</tr>
<tr>
<td>120</td>
<td>± 25%</td>
<td>100</td>
<td>0.20</td>
<td>250</td>
</tr>
<tr>
<td>150</td>
<td>± 25%</td>
<td>100</td>
<td>0.30</td>
<td>250</td>
</tr>
<tr>
<td>300</td>
<td>± 25%</td>
<td>100</td>
<td>0.50</td>
<td>200</td>
</tr>
<tr>
<td>500</td>
<td>± 25%</td>
<td>100</td>
<td>0.50</td>
<td>200</td>
</tr>
<tr>
<td>600</td>
<td>± 25%</td>
<td>100</td>
<td>0.50</td>
<td>200</td>
</tr>
</tbody>
</table>

DIMENSIONAL CONFIGURATIONS

TYPICAL CURVES - FREQUENCY CHARACTERISTICS OF Z, X AND R
TYPICAL CURVES - FREQUENCY CHARACTERISTICS OF Z, X AND R

1. **70Ω ± 25%**
   - Z, R, X graphs for frequency characteristics.

2. **120Ω ± 25%**
   - Z, R, X graphs for frequency characteristics.

3. **150Ω ± 25%**
   - Z, R, X graphs for frequency characteristics.

4. **300Ω ± 25%**
   - Z, R, X graphs for frequency characteristics.

5. **500Ω ± 25%**
   - Z, R, X graphs for frequency characteristics.

6. **600Ω ± 25%**
   - Z, R, X graphs for frequency characteristics.

**HOW TO ORDER**

<table>
<thead>
<tr>
<th>MODEL</th>
<th>INDUCTANCE VALUE</th>
<th>INDUCTANCE TOLERANCE</th>
</tr>
</thead>
<tbody>
<tr>
<td>ILB-1206</td>
<td>19Ω ± 25%</td>
<td></td>
</tr>
</tbody>
</table>

**PACKAGING OPTIONS**

- Bulk: 1,000 pieces per plastic bag.
- Tape and Reel: Paper carrier tape, 3,000 pieces per reel.

**TAPE AND REEL SPECIFICATIONS**

- Dimensions and tolerances for tape and reel specifications.
- Measurements for each component and their respective tolerances.

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