**DESCRIPTION**

**ELECTRICAL:** RA45 With Internal Magnetics Connector
- Designed to support such applications as: Ethernet Equipment, Complex Switches, Routers, Firewalls, Servers, and Hub Internal magnetics for X: 100X electronically enhanced functionality per IEEE802.3 requirement
- RoHS peak wave solder temperature rating 235°C
- High performance for maximum EMI suppression
- 350µF minimum OCL with 8mV bias current

**MECHANICAL:** JACK CAVITY CONFORMS TO FCC RULES AND REGULATIONS PART 68 SUBPART F.
- INSERTION FORCE: 8 CONTACTS---900g, 10 CONTACTS---1050g
- RETENTION STRENGTH: 7.7kgs between jack and plug
- DURABILITY: 750 MATING CYCLES Mini

**MATERIAL:**
1) GLASS FILLED PA66 (UL 94V-0)
2) GLASS FILLED PA46/PA66/PA6T/LCP (UL 94V-0)
3) GLASS FILLED PBT/PA/ABS/PC (UL 94V-0)

**SPRING WIRE:** 0.25-0.35mm THICKNESS(50-80μ")
- PHOSPHOR BRONZE ALLOY SELECTIVE GOLD PLATING OVER NICKEL SHIELDING: 0.2-0.24mm THICKNESS(50-80μ") COPPER ALLOY WITH TIN PLATED

**GOLD PLATING:** 3μ", 5μ", 15μ", 30μ", 50μ"
- Storage: 40°C±20%, Relative Humidity≤70%
- Operating: 0°C-70°C
- TOLERANCES UNLESS OTHERWISE SPECIFIED: ±0.10%

**ELECTRICAL SPECIFICATIONS AT 25 °C**

<table>
<thead>
<tr>
<th>Insertion Loss</th>
<th>Return Loss</th>
<th>Common Mode Rejection</th>
<th>Common Mode Rejection</th>
</tr>
</thead>
<tbody>
<tr>
<td>dB max</td>
<td>dB min</td>
<td>(dB typ)</td>
<td>(dB typ)</td>
</tr>
<tr>
<td>1-123MHz</td>
<td>30-80MHz</td>
<td>1-100MHz</td>
<td>1-10MHz</td>
</tr>
<tr>
<td>-1.2</td>
<td>-18</td>
<td>-180μV/μV</td>
<td>-300μV/μV</td>
</tr>
</tbody>
</table>

150Ω/350μA OR 220Ω/0.1mA

**Number of magnetic rings:**

*The No. of circuits

B-TOP 东莞市博腾电子科技有限公司

Dongguan BroadTop Electronic Technology Co., Ltd.

**SCALE:** 1:81 **UNIT:** mm **MODEL NO.:** B80020008111