**DESCRIPTION**

**ELECTRICAL:** RJ45 With internal Magnetics Connector

- Designate to support such applications as: Ethernet, Equipment Complex, Switches, Routers, Firewalls, Servers, and Hub
- Internal magnetics are 100% electrically tested for functionality per IEEE802.3 requirement
- RoHS peak wave solder temperature rating 235°C
- High performance for maximum EMI suppression
- 350μH minimum OCL with 8mA 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: 7.7kgf BETWEEN JACK AND PLUG
- DURABILITY: 750 WATING Cycles Mini

**MATERIAL:**

1. GLASS FILLED P66 (UL 94V-0)
2. GLASS FILLED P66/PA66/PBT/LCP (UL 94V-0)
3. GLASS FILLED PBT/PA/ABS/PC (UL 94V-0)

**SPRING WIRE:**

- 0.25-0.35mm THICKNESS PHOSPHOR BRONZE ALLOY SELECTIVE GOLD PLATING OVER NICKEL (50-80μm)
- OVER TIN <(60-120μm)

**GOLD PLATING:**

- 3μm, 6μm, 15μm, 30μm, 50μm

**SHIELDING:**

- 0.2-0.24mm THICKNESS COPPER ALLOY WITH NICKEL (50-100μm) PLATED

**Storage:**

- -40°C to 85°C, Relative Humidity <70%

**Operating:**

- -40°C to 85°C

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**ELECTRICAL SPECIFICATIONS AT 25°C**

<table>
<thead>
<tr>
<th>Insertion Loss</th>
<th>Return Loss (dB)</th>
<th>Crosstalk (dB)</th>
<th>Common Mode Rejection (dB)</th>
<th>10μA (mA)</th>
</tr>
</thead>
<tbody>
<tr>
<td>1-125MHz</td>
<td>-18</td>
<td>-30</td>
<td>-30</td>
<td>150kHz/15mA OR 220VDC/0.1mA</td>
</tr>
</tbody>
</table>

**Product definition LOGO:**

- Press "1": TOP-J, No. "B1": "TOP-A": 3, Other company LOGO
- Product definition on plastic materials: T-P66, 3-P66/PA66/PBT/LCP, P-BT/PA/ABS/PC
- Pin definition of the product 1-Pin after 8-Pin back: C, No definition of the product

**B-TOP® 东莞市博腾电子科技有限公司**
Dongguan BroadTop Electronic Technology Co., Ltd.

- **Designed:**
- **Checked:**
- **Approved:**

**SCALE:** 1.8:1

**MATERIAL:** BT C8-81B, -40++85

**REV:**

**MODEL NO.:** B80020008111