**DESCRIPTION**

**ELECTRICAL:** RJ45 with internal Magnetics Connector

Design 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*

- **OCL:100kHz 100mV 8mA, 350ui3 Min. Turns Ratio: 10Khz 1V 100ohm to 2/3/4 1:1:1 ±2%**
- **Hi-Pot: PUT OUT PUT: 2250V DC 60sec, OUT PUT TO SHEILD 2250V DC 60sec**
- **RoHS peak wave solder temperature rating: 260℃ 5sec**

**MECHANICAL:** JACK CAVITY CONFORMS TO FCC RULES AND REGULATIONS, PART 68 SUBPART F.

- **INSERTION FORCE:** 0g to 900g, 10 CONTAINS... ±1050g
- **RETENTION STRENGTH:** 7.7Kgs BETWEEN JACK AND PLUG
- **DURABILITY:** 750 WAVING CYCLES Min

**MATERIAL:**

- **HOUSING:** 1) Glass Filled PA66 (UL 94V-0)
- **2) Glass Filled PA46/PA6T/PA6T/COP (UL 94V-0)**
- **3) Glass Filled PC/PZ/ABS/PC (UL 94V-0)**

**SPRING WIRE:** 0.25-0.30mm THICKNESS PHOSPHOR COPPER ALLOY WITH BOTTOM LAYER NICKEL 30-50µ" BETWEEN BRIGHT TIN 60-120µ" OVER SELECTIVE PLATING

**GOLD PLATING:** 3µ", 5µ", 15µ", 30µ", 50µ"

**Signal pin:** 0.4±0.4 THICKNESS COPPER ALLOY WITH BOTTOM LAYER N 30-50ù" OVER BRIGHT TIN 60-120µ"

**SHELVING:** 0.2-0.25mm THICKNESS COPPER ALLOY WITH HALF BRIGHT NICKEL 60-100µ" PLATED

**Storage:** -40°C to 85°C, Relative Humidity ≤70%

**Operating:** 0°C to 70°C

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**ELECTRICAL SPECIFICATIONS AT 25°C**

<table>
<thead>
<tr>
<th>Interface Loss dB min</th>
<th>Return Loss dB min</th>
<th>Crosstalk (ch Typ)</th>
<th>Carrier Mode Rejection (dB Typ)</th>
<th>Null (mm)</th>
</tr>
</thead>
<tbody>
<tr>
<td>1-125MHz</td>
<td>1-30MHz</td>
<td>30-85MHz</td>
<td>1-120MHz</td>
<td>-30</td>
</tr>
<tr>
<td>-1.2</td>
<td>-18</td>
<td>-1820log(y/30MHz)</td>
<td>-30</td>
<td>1500/0.3mA OR 2250/0.1mA</td>
</tr>
</tbody>
</table>

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**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

**Unit:** mm

**Model No.:** B80020016911

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**REV.:**