**DESCRIPTION**

**ELECTRICAL:**
RJ45 With internal Magnetics Connector
- Designed to support such applications as: Ethernet, Equipment, Systems, Switches, Routers, Firewalls, Servers and Hub.
- Internal magnetics are 100% electrically tested for functionality per IEEE802.3 requirement.
- RoHS peak wave solder temperature rating 250°C.
- High performance for maximum EMI suppression.
- 350μH minimum QCL 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: 7.5kg between Jack and Plug.
- DURABILITY: 750 mating cycles mini.

**MATERIAL:**
- HOUSING: 1) GLASS FILLED PA66 (UL 94V-0)
  2) GLASS FILLED PA46/PA66/PA6/EPDM (UL 94V-0)
  3) GLASS FILLED PBT/PA/ABS/PC (UL 94V-0)
- SPRING WIRE: 0.25-0.35mm THICKNESS (50-80μm) PHOSPHOR BRONZE ALLOY SELECTIVE Gilding over Nickel.
- WELDING: 0.2-0.24mm THICKNESS (50-80μm) COPPER ALLOY WITH TIN PLATED.
- GOLD PLATING: 3μ, 6μ, 9μ, 15μ, 30μ, 50μ
- Storage: -40°C~85°C, Relative Humidity<70%
- Operating: -40°C~85°C

**ELECTRICAL SPECIFICATIONS AT 25°C**

<table>
<thead>
<tr>
<th>Insertion Loss d31</th>
<th>Return Loss d48</th>
<th>Crosstalk d48</th>
<th>Common Mode Rejection d48</th>
<th>Hpo[ms]</th>
</tr>
</thead>
<tbody>
<tr>
<td>1-125MHz</td>
<td>1-300MHz</td>
<td>30-800MHz</td>
<td>1-100MHz</td>
<td>1-100MHz</td>
</tr>
<tr>
<td>-12</td>
<td>-18</td>
<td>-18x20log(dB/30MHz)</td>
<td>-30</td>
<td>-30</td>
</tr>
<tr>
<td>1500/0.5mΩ OR 255Ω/10mΩ</td>
<td></td>
<td></td>
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<td></td>
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</tbody>
</table>

**B-TOP**

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

**DESIGNER:**
Checked:
Approved:

**SCALE:** 1.8:1
**UNIT mm**
**MODEL NO.:** B80020002811
**REV.:**