1: TOLERANCES UNLESS OTHERWISE SPECIFIED:
0-10±0.15, 10-20±0.2, 20-40±0.25,
40-70±0.3, >70±0.4

2: JACK CAVITY CONFORMS TO FCC RULES AND REGULATIONS, PART 68 SUBPART F.
**TRANSMIT** 1C1:1

1. **TX+**
2. **TX-**
3. **RX+**
4. **RX-**
5. **50**
6. **750**
7. **BNC**
8. **2KV**

**DESCRIPTION**

**ELECTRICAL:** RJ45 With internal Magnetics Connector

designed 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:** 10 CONTACTS - 900g, 10 CONTACTS - 1050g
**RETENTION STRENGTH:** 7.7kgf BETWEEN JACK AND PLUG
**DURABILITY:** 750 MATING CYCLES MIN

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

**SPRING WIRE:** 0.25–0.35mm THICKNESS (50–80’s) PHOSPHOR BRONZE ALLOY SELECTIVE GOLD PLATING OVER NICKEL

**SOLDERING:** 0.2–0.24mm THICKNESS (50–80’s) COPPER ALLOY WITH TIN PLATED

**COLD PLATING:** 3μ, 6μ, 15μ, 30μ, 50μ

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

**Operating:** 0°C to 70°C

**TOLERANCES UNLESS OTHERWISE SPECIFIED:** 0:±0.02, 10:±0.025, 20:±0.03, 40:±0.34, ±70:±0.35, ±720:±0.4

**ELECTRICAL SPECIFICATIONS AT 25°C**

<table>
<thead>
<tr>
<th>Insertion Loss (dB) max</th>
<th>Return Loss (dB) min</th>
<th>Crosstalk (dB) @75Ω</th>
<th>Common Mode Rejection (dB) @75Ω</th>
<th>Rise Time (μs)</th>
</tr>
</thead>
<tbody>
<tr>
<td>1–1250MHz</td>
<td>1–30MHz</td>
<td>30–100MHz</td>
<td>1–100MHz</td>
<td>1500/0.5μs OR 22500/0.5mA</td>
</tr>
<tr>
<td>1–28MHz</td>
<td>18</td>
<td>18+20log(f/10MHz)</td>
<td>30</td>
<td>30</td>
</tr>
</tbody>
</table>

**B-TOP** Dongguan Broadtop Electronic Technology Co., Ltd.

**DESIGNED:** [Signature]
**CHECKED:** [Signature]
**APPROVED:** [Signature]

**SCALE:** 1:8:1 **UNIT:** mm **MODEL NO.:** B80020025311 **REV.:** 2

**B80020025311**