**DESCRIPTION**

**ELECTRICAL:** RJ45 with internal Magnectics Connector
- Designed to support applications such as Ethernet, Equipment Complex, Switches, Routers, Firewalls, Servers, and Hubs
- Internal magnets are 100% electrically tested for functionality per IEEE802.3 requirement
- RoHS peak wave solder temperature rating 235°C
- High performance for maximum EMI suppression
- 350μA minimum QCL with 8μA bias current
- PoE rating: 15W, 350mA, 48V; PoE+: rating: 30W, 750mA, 57V; PoE+++ rating: 60W, 1000mA, 57V (For PoE Products only)

**MECHANICAL:** JACK CAVITY CONFORMS TO FCC RULES AND REGULATIONS, PART 68 SUBPART F.
- INSERTION FORCE: 8 CONTACTS (90g) to CONTACTS (1050g)
- RETENTION STRENGTH: 7.74g between jack and plug
- DURABILITY: 750 mating cycles Mini

**MATERIAL:**
- HOUSING: 1) GLASS FILLED PA66 (UL 94V-0)
  2) GLASS FILLED PA64/PAT/PAT1/LOCPC265+(UL 94V-0)
  3) GLASS FILLED PBT/PA/ABS/PC (UL 94V-0)
- SPRING WIRE: 0.25-0.35mm THICKNESS PHOSPHOR BRONZE ALLOY SELECTIVE PLATING OVER NICKEL (50-80μ"")
- OVER TIN60-120μ"")
- GOLD PLATING: 5μ", 6μ", 15μ", 30μ", 50μ"
- SHELLING: 0.2-0.24mm THICKNESS COPPER ALLOY WITH NICKEL (50-100μ") PLATED
- Storage: -40°C±80°C Relative Humidity<70%
- Operating: -20°C±70°C

**ELECTRICAL SPECIFICATIONS AT 25°C**

<table>
<thead>
<tr>
<th>Insertion Loss (dB) max</th>
<th>Return Loss (dB) min</th>
<th>Crosstalk (dB Typ)</th>
<th>Common Mode Rejection (dB Typ)</th>
<th>ripple (Vrms)</th>
</tr>
</thead>
<tbody>
<tr>
<td>1.25kHz</td>
<td>20kHz</td>
<td>1.35kHz</td>
<td>1-100MHz</td>
<td>-30</td>
</tr>
<tr>
<td>-30</td>
<td>-40</td>
<td>1000/0.5mA 0OHM  20000Ω/0.1mA</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

"B" with the company code

"N" with the company code

"K" with the company code

"Z" with the company code

"G" with the company code

"M" with the company code

"A" with the company code

"C" with the company code

"D" with the company code

"E" with the company code

"H" with the company code

**B-TOP® 东莞市博腾电子科技有限公司**

Dongguan BroadTop Electronic Technology Co., Ltd.

**FIRST ANGLE PROJECTION**

**DESIGNER:**

**CHECKED:**

**APPORVED:**

**MATERIAL:**

**SILVER ALLOY:**

**MODEL NO.:** BT PF4-280 POE

**REV.:** 1.1

**SCALE:** 1:8:1

**UNIT:** mm

**MODEL NO.:** BT PF4-280 POE

**REV.:** 1.1