**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:**
- J A C K C A V I T Y CONFORMS TO FCC RULES AND REGULATIONS, PART 68 SUBPART F.
- INSERTION FORCE: 8 CONTACTS = 900g, 10 CONTACTS = 1050g
- RETENTION STRENGTH: 7.7kg between jack and plug
- DURABILITY: 750 mating cycles Min

**MATERIAL:**
- HOUSING:
  1) GLASS FILLED P666 (UL 94V-0)
  2) GLASS FILLED PA66/PA6T/PA6/CF2650G (UL 94V-0)
  3) GLASS FILLED PBI/PA/ABS/PC (UL 94V-0)
- SPRING WIRE: 0.25 - 0.35mm THICKNESS PHOSPHOR BRONZE ALLOY SELECTIVE GOLD PLATING OVER NICKEL (50 - 80μ") OVER TIN (60 - 120μ")
- GOLD PLATING: 3μ", 5μ", 15μ", 30μ", 50μ"
- SHIELDING: 0.2 - 0.24mm THICKNESS COPPER ALLOY WITH NICKEL (50 - 100μ") PLATED
- STORAGE: -40°C - 85°C Relative Humidity: 70%
- OPERATING: 0°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 (Volts rms)</th>
</tr>
</thead>
<tbody>
<tr>
<td>1 - 125MHz</td>
<td>1 - 30MHz</td>
<td>20 - 30MHz</td>
<td>1 - 100MHz</td>
<td>1 - 100MHz</td>
</tr>
</tbody>
</table>

- "A" with the company code
- "B" with the company code

**DESIGN:**
- B-5 -- BroadTop Technology Co., Ltd.
- B-8 -- BroadTop Technology Co., Ltd.

**PRODUCT INFORMATION:**
- Design: B-5
- B-8
- Material: PA66, PA6T, PA6, PA66/PA6T/PA6/CF2650G
- RoHS compliance: Yes

**PRODUCT DEFINITION:**
- Product identification: BT F4-03A
- Material: PA66, PA6T, PA6
- RoHS compliance: Yes
- Other companies: B-5

**NOTES:**
- Designed and manufactured by BroadTop Technology Co., Ltd.
- Material: PA66, PA6T, PA6
- RoHS compliance: Yes
- Other companies: B-5

**PRODUCT DEFINITION:**
- Product identification: BT F4-03A