**DESCRIPTION**

**ELECTRICAL:**
- R45 With internal Magnetics Connector
- Design to support such applications as: Ethernet Equipment, Complex Switches, Routers, Firewalls, Servers, and Hub
- 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
- 350UH minimum OCL 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: 7.2kgp between jack and plug
- DURABILITY: 750 MATING CYCLES Min

**MATERIAL:**
- HOUSING: 1) GLASS FILLED PPA6 (UL 94V-0)
  2) GLASS FILLED PPA6/PA66/LCP/25% (UL 94V-0)
  3) GLASS FILLED PBT/PA66/PC (UL 94V-0)
- SPRING WIRE: 0.25-0.35mm THICKNESS PHOSPHOR BRONZE ALLOY SELECTIVE GOLD PLATING OVER NICKEL(50-80 Microns)
- GOLD PLATING: 3 Microns, 6 Microns, 15 Microns, 30 Microns, 50 Microns
- SHIELDING: 0.2-0.24mm THICKNESS COPPER ALLOY WITH NICKEL(50-100 Microns) PLATED
- Storage: -40°C to 85°C Relative Humidity<70%
- Operating: 0°C to 70°C

**ELECTRICAL SPECIFICATIONS AT 25°C**

<table>
<thead>
<tr>
<th>Frequency (Hz)</th>
<th>Return Loss dBA</th>
<th>Common Mode Rejection (dBA)</th>
<th>Insertion Loss dBA</th>
<th>Hopal(mm)</th>
</tr>
</thead>
<tbody>
<tr>
<td>1-125MHz</td>
<td>-18</td>
<td>-30</td>
<td>-30</td>
<td>1500/0.5mA OR 2250/0.1mA</td>
</tr>
</tbody>
</table>

*Note: With the correct code*

**Product definition LOGO:** 1: Press "B-TOP" 2: No "B-TOP" 3: Other companies LOGO

**Product definition plastic materials:** 1: PPA6, 2: PPA66, 3: PA6, 4: PA66, 5: PBT, 6: ABS, 7: PBT, 8: PAP, 9: PC, 10: LCP

**Pin definition of the product:**
- Pin 1 to 8: B-Pin basic C: No definition of the product

**Number of magnetic ring:**
- 6 rings

**The NO. of circuit:**
- 1

**Company:**
- B-TOP® Dongguan BroadTop Electronic Technology Co., Ltd.

**Model:**
- BT F4-41

**Scale:**
- 1:8:1

**Units:**
- mm

**Model No.:**
- BT F4-41

**REV.:**
- 1