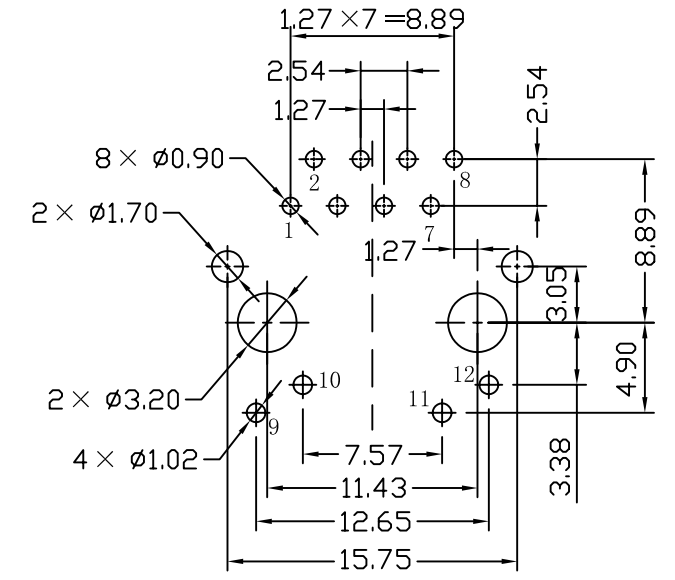
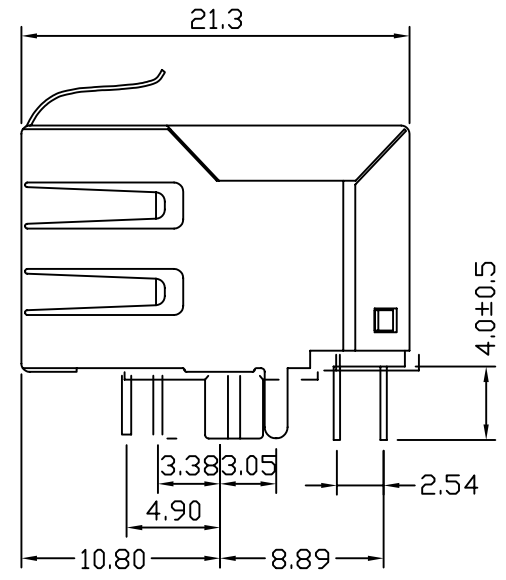
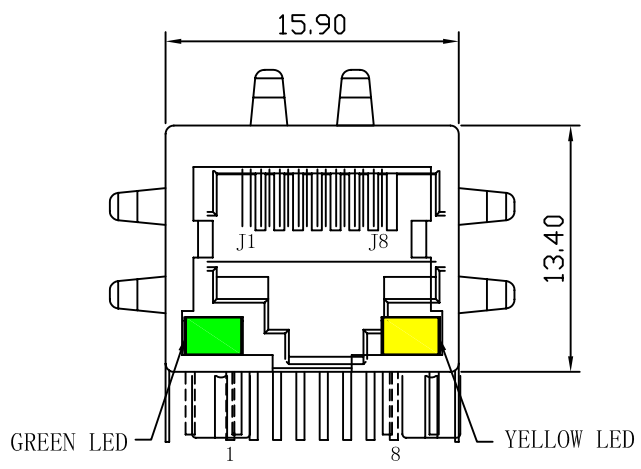
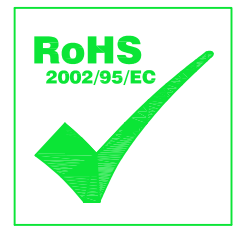
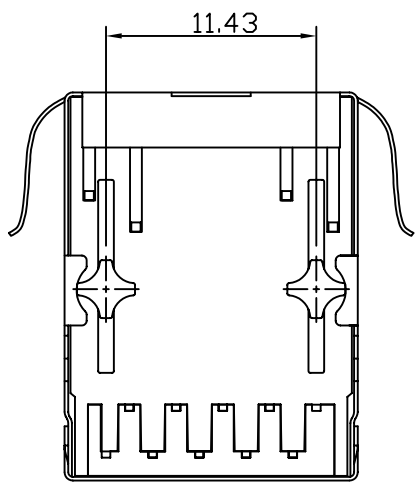


Mechanical:

| REV. | ECN NO. | DESCRIPTION | DATE       | APPD |
|------|---------|-------------|------------|------|
| A    | REL     |             | 26/11/2007 |      |



SUGGESTED PCB LAYOUT (TOP VIEW)



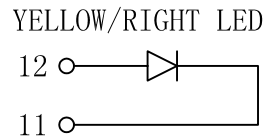
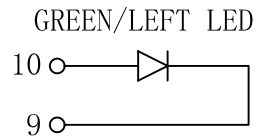
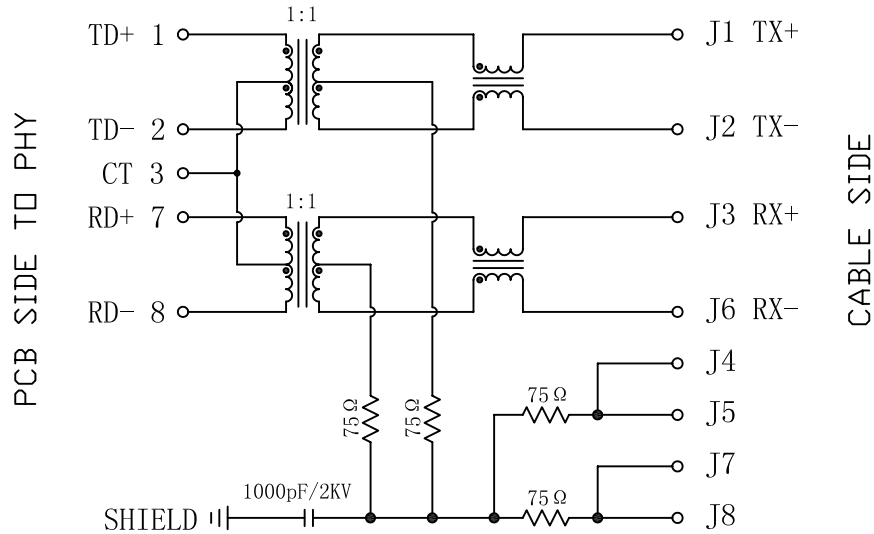
NOTES:

1. Designed to support application, such as SOHO (ADSL modems), LAN-on-Motherboard (LOM), hub and Switches.
2. Meets IEEE 802.3 specification
3. Connector Materials:  
 Housing: Thermoplastic UL94V-0  
 Contact/Shield: Copper alloy  
 Shield plating: Nickel  
 Contact plating: Gold 6 micro-inches min. In contact area.
4. Wave solder tip temperature: 265°C Max  
 Wave solder tip temperature time: 5 Sec Max
5. UL Certification: File Number E321120

|             |             |  |
|-------------|-------------|--|
| X:X ±0.30   | APPD:       | Beijing BOCON Automation Tech CO.,Ltd<br>1                       |
| X:XX ±0.20  | CHKD:       |  |
| X:XXX ±0.05 | DR: C. H. Y | TITLE: RJ45 Connector with 10/100 Base-T<br>Integrated Magnetics |
| ANGLES ±1°  | UNIT: mm    | PART NO.: <b>B-TRJ4013AHNL</b>                                   |
|             | SCALE: 2/1  | SHEET: 1/2   |
|             | REV: A      | DWG NO.: TRC07112603   |

# Schematic:

| REV. | ECN NO. | DESCRIPTION | DATE       | APPD |
|------|---------|-------------|------------|------|
| A    | REL     |             | 26/11/2007 |      |



## ELECTRICAL SPECIFICATIONS @25°C

- Turn Ratio ( $\pm 2\%$ ):  
TX=1:1      RX=1:1
- Inductance OCL: 350uH MIN  
@100KHz/0.1V, 8mA DC Bias
- Insertion Loss:  
-1.0dB MAX @1-100MHz
- Return Loss:  
-18dB MIN @1-30MHz  
-16dB MIN @30-60MHz  
-12dB MIN @60-80MHz
- Cross talk:  
-30dB MIN @1-100MHz
- Common Mode Rejection:  
-30dB MIN @1-100MHz
- Hipot Test: 1500Vrms MIN
- Operating Temperature Range: -40°C TO 85 °C

|                      |               |  |              |                                   |
|----------------------|---------------|--|--------------|-----------------------------------|
| X:X $\pm 0.30$       | APPD:         | Beijing BOCON Automation Tech CO.,Ltd                            |              |                                   |
| X:XX $\pm 0.20$      | CHKD:         | TITLE: RJ45 Connector with 10/100 Base-T<br>Integrated Magnetics |              |                                   |
| X:XXX $\pm 0.05$     | DR:   C. H. Y | PART NO. : <b>B-TRJ4013AHNL</b>                                  |              |                                   |
| ANGLES $\pm 1^\circ$ | UNIT:   mm    | SCALE:   2/1   | SHEET:   2/2 | REV:   A    DWG NO. : TRC07112603 |