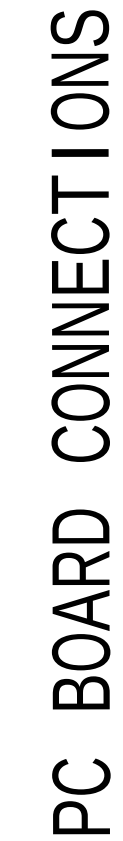


Schematic:

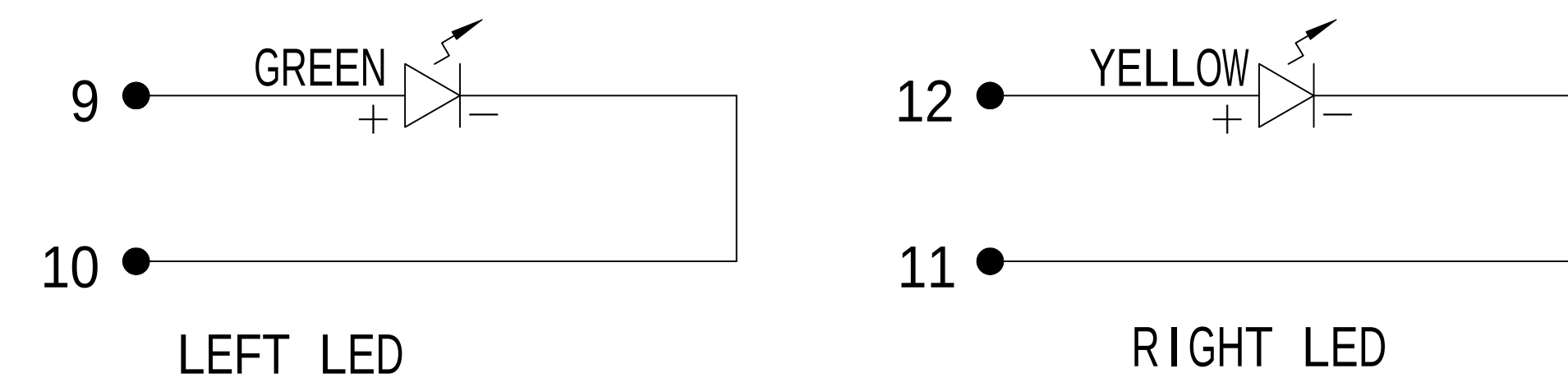


RJ45 CONNECTOR

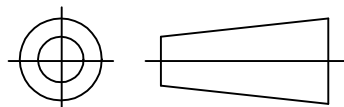
|      |         |             |            |      |
|------|---------|-------------|------------|------|
| REV. | ECN NO. | DESCRIPTION | DATE       | APPD |
| A    | REL     |             | 2008-12-12 |      |
|      |         |             |            |      |

## ELECTRICAL SPECIFICATIONS @25 °C

1. Turn Ratio : 1CT:1CT  $\pm 5\%$
2. OCL: 350uH Min @100KHz, 0.1V, 8mA DC Bias
3. Insertion Loss (dB Max):  
1-100MHz: -1.2
4. Return Loss(dB Min):  
1-30MHz: -16                      30-60MHz: -12  
60-80MHz: -10                    80-100MHz: -8
5. Cross Talk(dB Min):  
1-100MHz: -30
6. Common Mode Rejection(dB Min):  
1-100MHz: -30
7. Isolation PHY SIDE To Line SIDE : 1500Vrms
8. Operating Temperature Range: 0°C ~ +70°C.

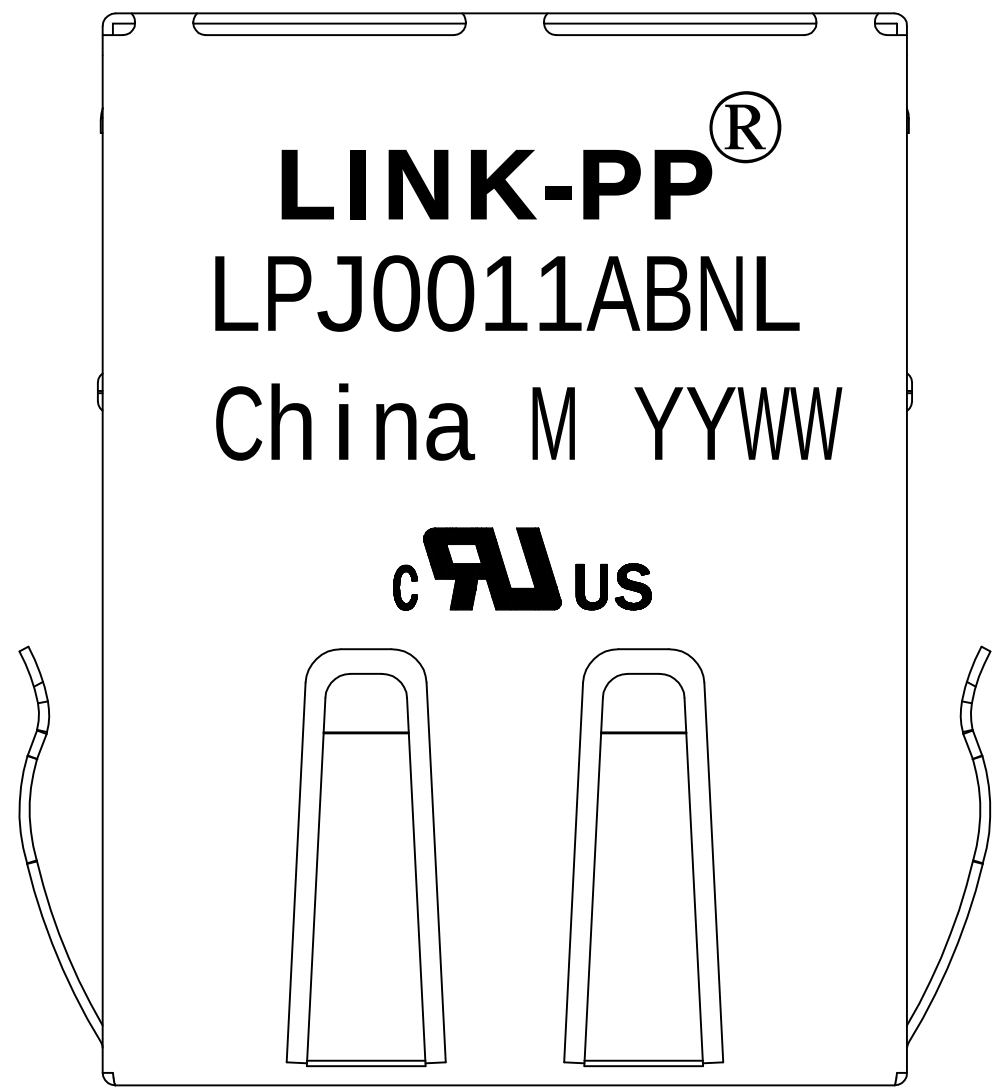
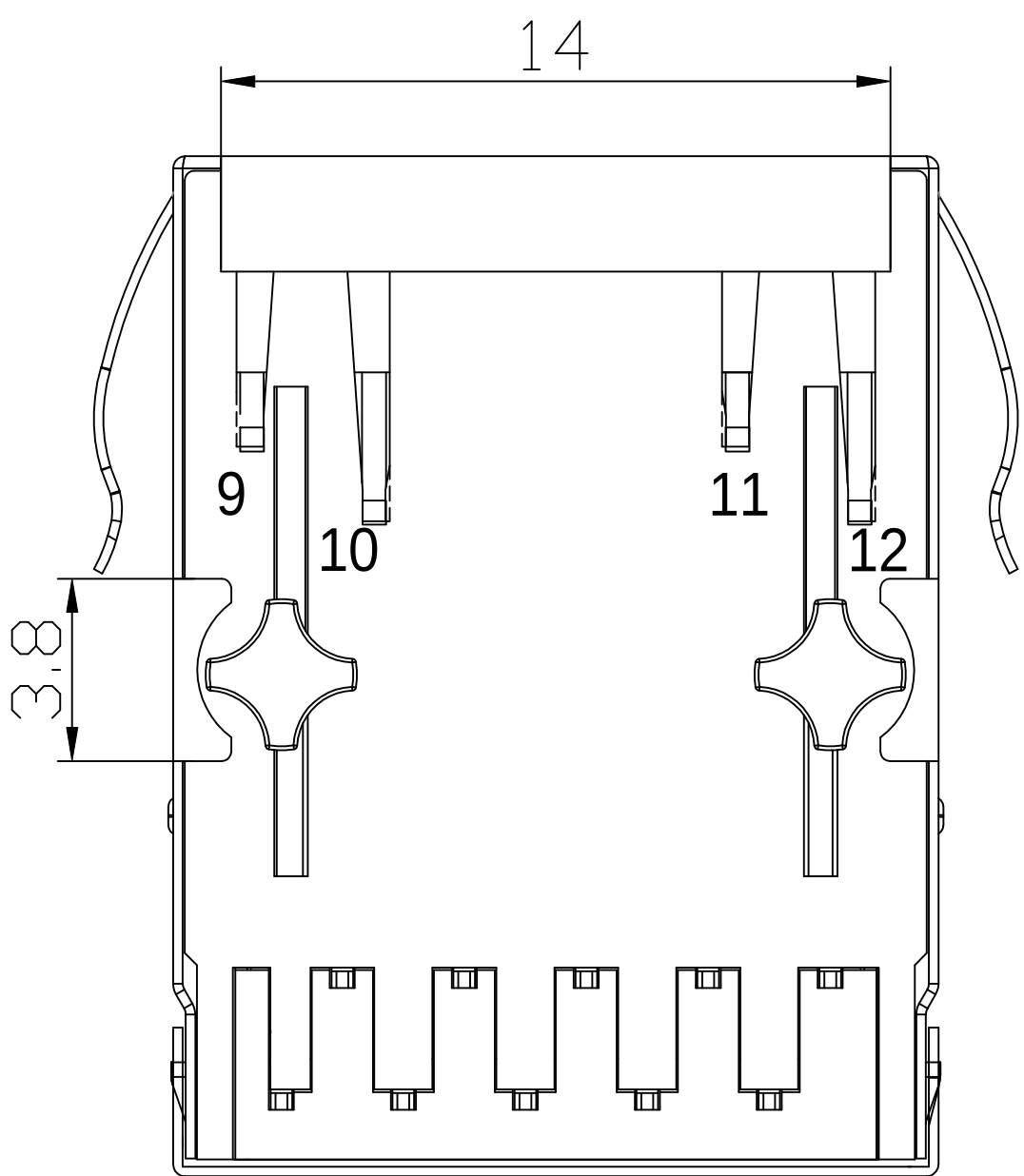
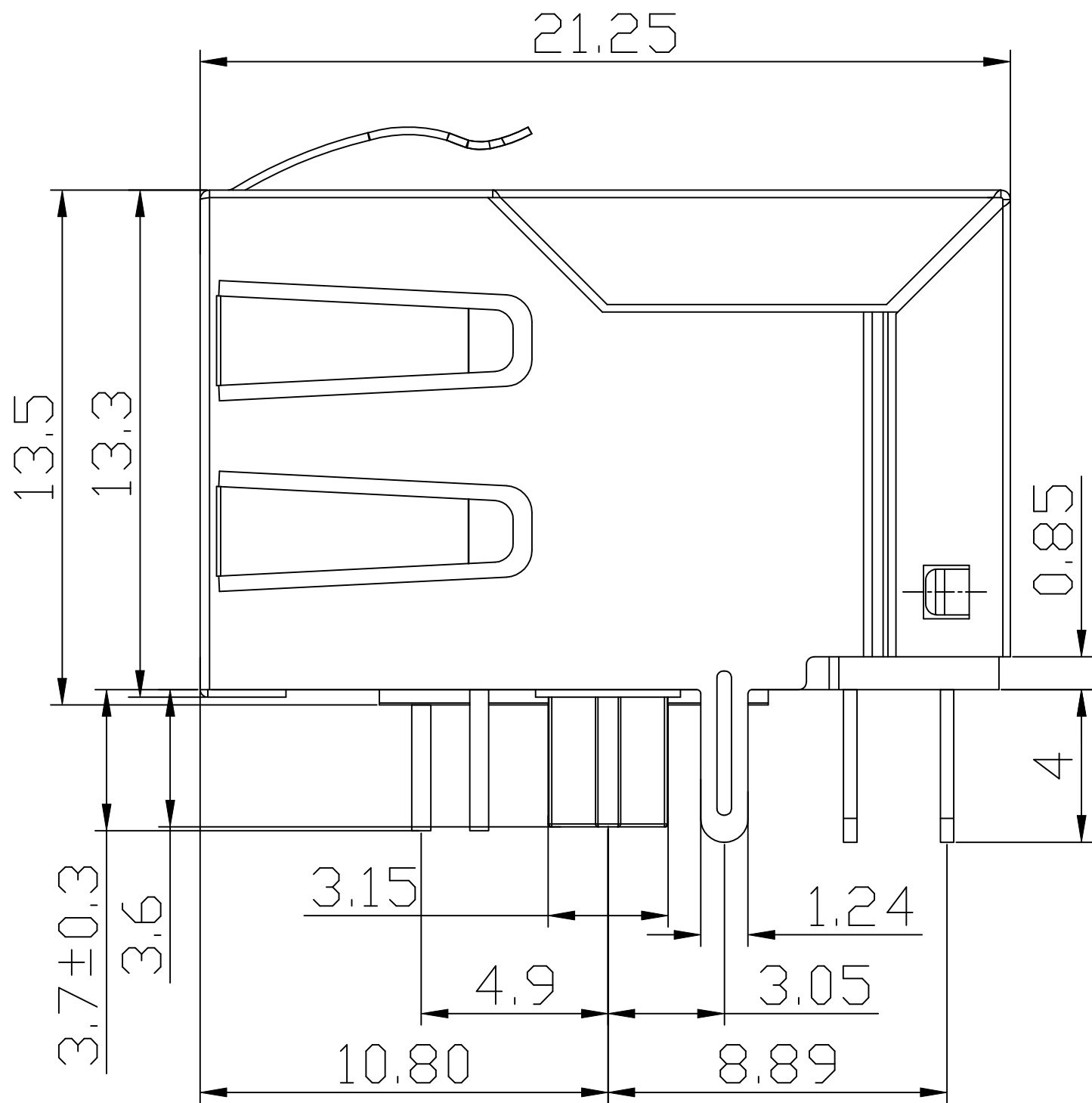
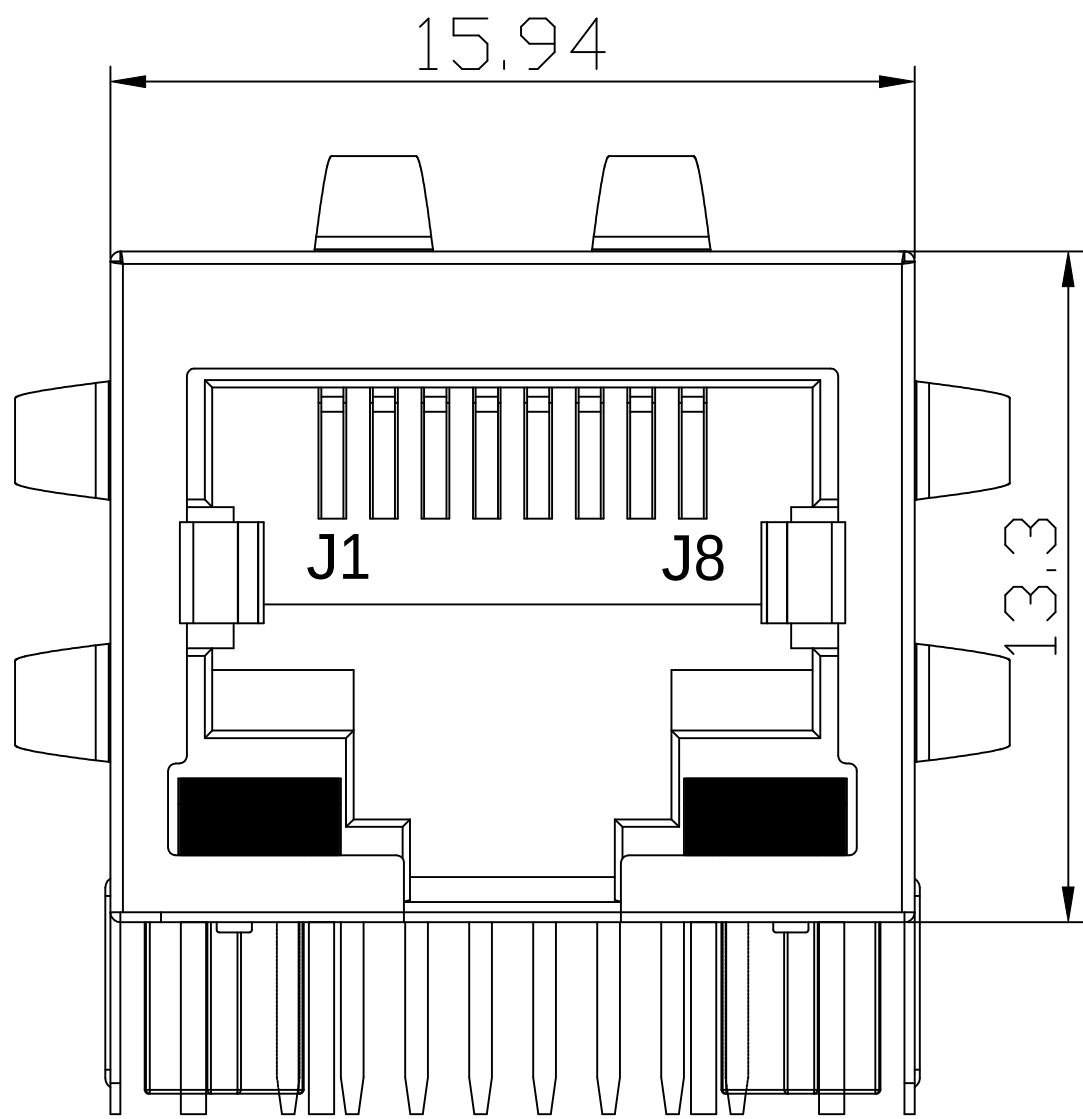


| EMITTING COLOR | $\lambda_p(\text{nm})$ | VF @IF=20mA | IR @VR=5V      |
|----------------|------------------------|-------------|----------------|
| GREEN          | 565                    | 1.8~2.6V    | 10 $\mu$ A max |
| YELLOW         | 585                    | 1.8~2.6V    | 10 $\mu$ A max |

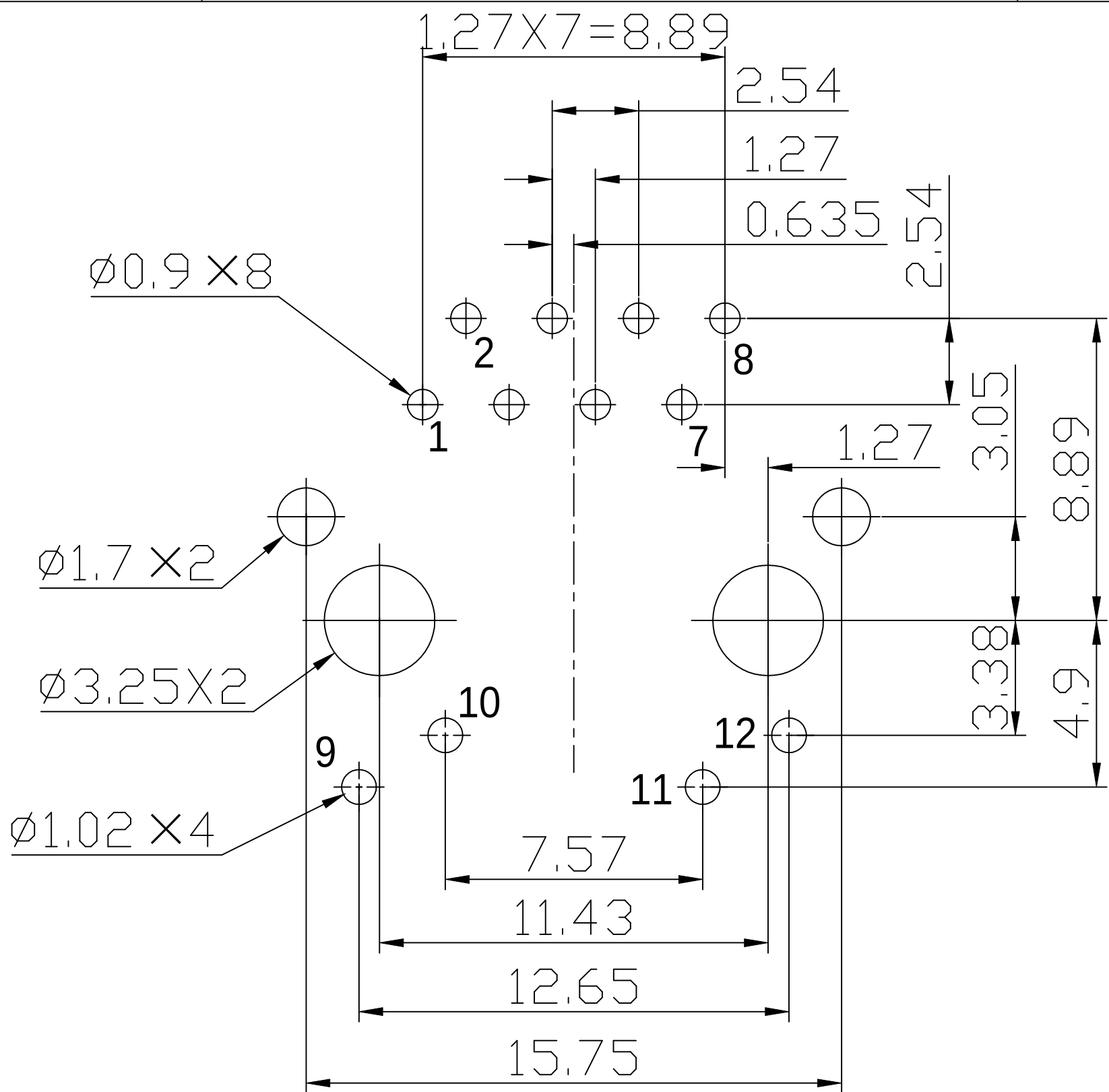
|                                                                                       |               |        |       |                                                                                                             |            |  |
|---------------------------------------------------------------------------------------|---------------|--------|-------|-------------------------------------------------------------------------------------------------------------|------------|--|
| X.X                                                                                   | $\pm 0.30$    | APPD:  | TOM   | LINK-PP INT'L TECHNOLOGY CO., LIMITED                                                                       |            |  |
| X.XX                                                                                  | $\pm 0.25$    | CHKD:  | JAMES | TITLE:<br><br>RJ45 CONNECTOR WITH 10/100 BASE-T INTEGRATED MAGNETICS<br>& WITH EMI SPRING FINGER & WITH LED |            |  |
| X.XXX                                                                                 | $\pm 0.15$    | DR:    | JULY  |                                                                                                             |            |  |
| ANGLES                                                                                | $\pm 1^\circ$ | UNIT:  | mm    | PART NO.: LPJ0011ABNL                                                                                       |            |  |
|  | SCALE:        | SHEET: |       | REV:                                                                                                        | DWG NO.:   |  |
|                                                                                       | 2/1           | 1/2    |       | A                                                                                                           | LP08121226 |  |



Mechanical:



| REV. | ECN NO. | DESCRIPTION | DATE       | APPD |
|------|---------|-------------|------------|------|
| A    | REL     |             | 2008-12-12 |      |
|      |         |             |            |      |



- NOTES:
- RECOMMENDED PCB LAYOUT(TOP VIEW)
- 1.Designed to support application,such as SOHO(ADSL modems),LAN-on-Motherboard(LOM),hub and Switches.
  - 2.Meets IEEE802.3 specification.
  - 3.Connector Materials:  
Housing: Thermoplastic PBT+30%G.F UL94V-0  
Contact: Phosphor Bronze C5210R-EH Thickness=0.35mm  
Pins: Brass C2680R-H Thickness=0.35mm  
Shield: SUS 304-1/2H Thickness=0.2mm  
Contact plating: Gold 6 micro-inches min.In contact area.
  - 4.Wave solder tip temperature and time: 250℃,5 Sec.
  - 5.UL Certification: File Number E484635.

|        |            |             |                                                                                            |                     |
|--------|------------|-------------|--------------------------------------------------------------------------------------------|---------------------|
| X.X    | ±0.30      | APPD: TOM   | LINK-PP INT'L TECHNOLOGY CO., LIMITED                                                      |                     |
| X.XX   | ±0.25      | CHKD: JAMES | TITLE:                                                                                     |                     |
| X.XXX  | ±0.15      | DR: JULY    | RJ45 CONNECTOR WITH 10/100 BASE-T INTEGRATED MAGNETICS & WITH EMI SPRING FINGER & WITH LED |                     |
| ANGLES | ±1°        | UNIT: mm    | PART NO.: LPJ0011ABNL                                                                      |                     |
|        | SCALE: 2/1 | SHEET: 2/2  | REV: A                                                                                     | DWG NO.: LP08121226 |