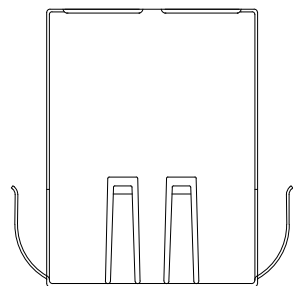
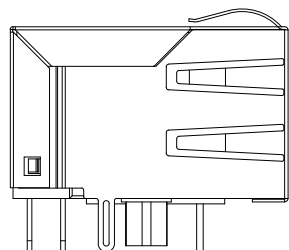


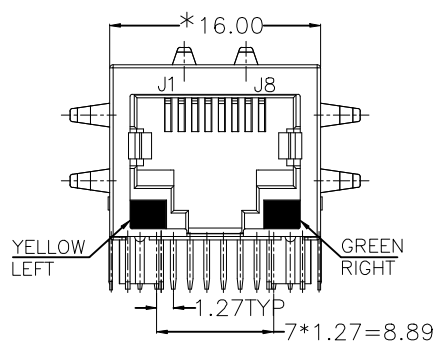
ROHS



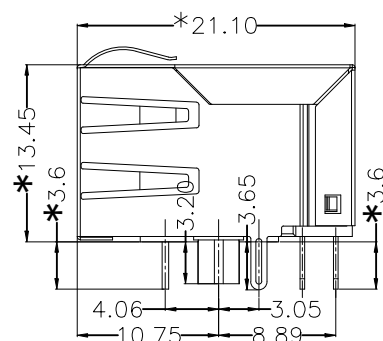
TOP VIEW



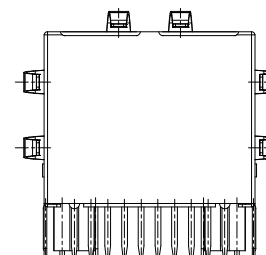
LEFT SIDE VIEW



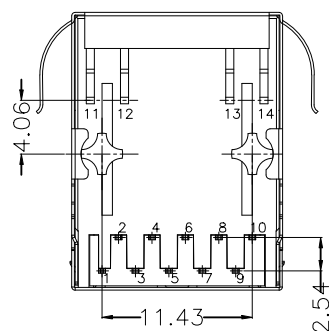
FRONT VIEW



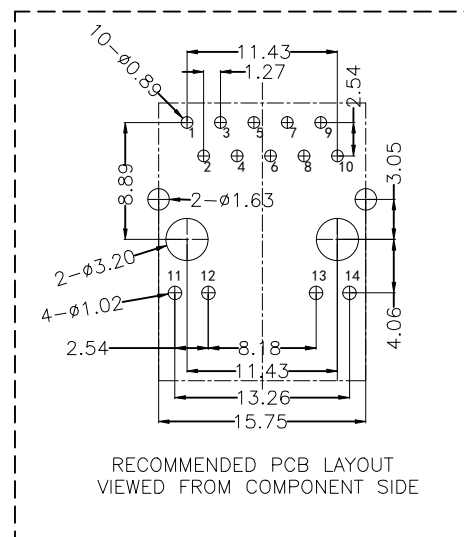
RIGHT SIDE VIEW



BACK VIEW



BOTTOM VIEW

RECOMMENDED PCB LAYOUT  
VIEWED FROM COMPONENT SIDE

## MATERIAL:

HOUSING: PBT,UL94V-0,BLACK.

TERMINALS BRACKET: PBT,UL94V-0,BLACK.

SHIELD C2680,T=0.20MM,

20U"MIN NICKEL PLATING ON ALL AREA.

TERMINAL PHOSPHOR BRONZE C5210,T=0.35MM,

6U" GOLD PLATING ON CONTACT AREA.

A.B TERMINAL:100U" TIN PLATING

## MACHANICAL:

DURABILITY: 750 CYCLES MIN.

INSERTION FORCE: 23N MAX.

OPERATING TEMPERATURE: -40℃~+85℃.

STORAGE TEMPERATURE: -40℃~+85℃.

ALL CRITICAL DIMENSIONS WITH "\*"

## CUSTOMER DRAWING

DRAWING

CHECKED

APPROVED

## TOLERANCES ARE

30-150 ±0.35

10-30 ±0.2

5-10 ±0.15

0-5 ±0.1

ANGLE

±3°

LAILAN 深圳市莱联电子有限公司

SHENZHEN LAILIAN ELECTRONICS CO.,LTD

TITLE TAB-DOWN 1X1 10/100BASE POE REV. A

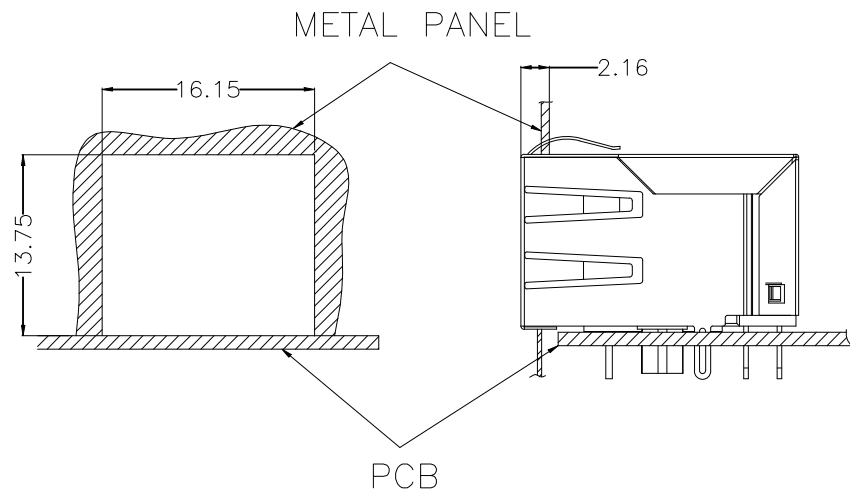
PART NO. LAIL-RJ45-LED2-BY-09G-WC UNITS mm

DWG. NO. Projection



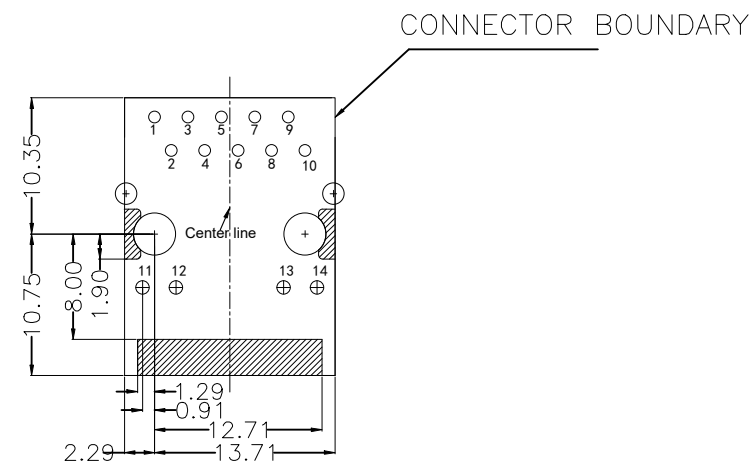
ROHS

RECOMMENDED PANEL CUTOUT(REFERENCE ONLY):



UNIT: MM / INCH  
TOLERANCES:  $\pm 0.10$  / 0.004  
REFERENCE ONLY

KEEP-OUT AREA(COMPONENT SIDE VIEW):

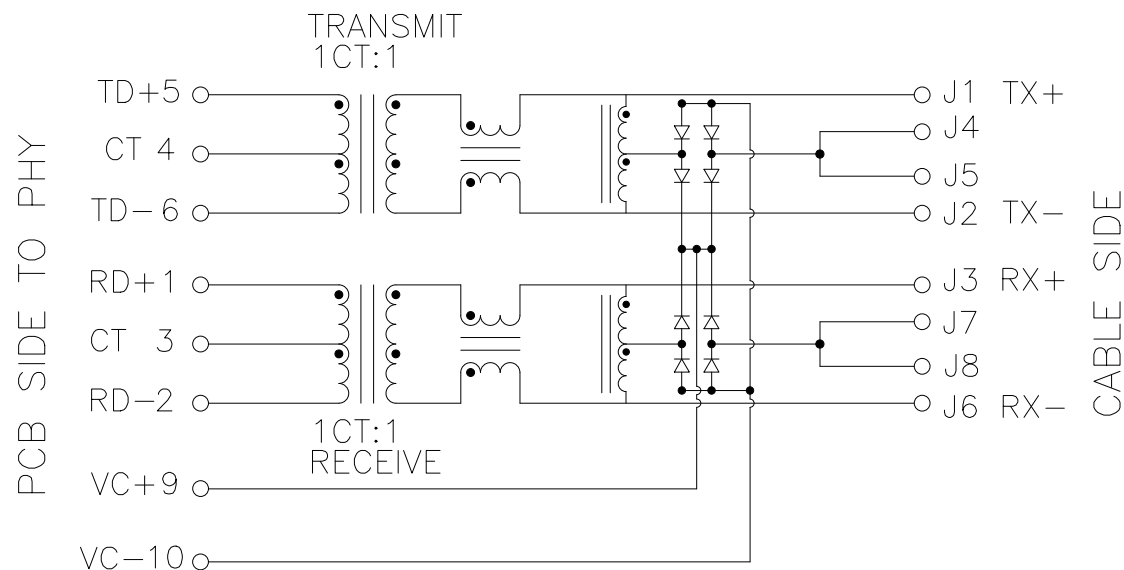


PLUG-IN SIDE

UNIT: MM / INCH  
TOLERANCES:  $\pm 0.10$  / 0.004

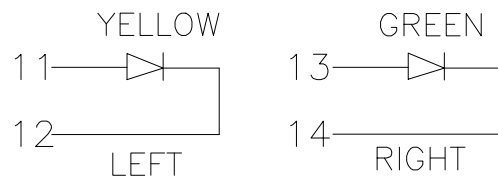
|                  |       |                                                              |          |            |  |       |
|------------------|-------|--------------------------------------------------------------|----------|------------|--|-------|
| CUSTOMER DRAWING |       | LAILIAN 深圳市莱联电子有限公司<br>SHENZHEN LAILIAN ELECTRONICS CO., LTD |          |            |  |       |
| DRAWING          |       | TITLE      TAB-DOWN 1X1 10/100BASE POE      REV.      A      |          |            |  |       |
| CHECKED          |       |                                                              |          |            |  |       |
| APPROVED         |       |                                                              |          |            |  |       |
| TOLERANCES ARE   |       | PART NO.      LAIL-RJ45-LED2-BY-09G-WC      UNITS      mm    | DWG. NO. | Projection |  |       |
| 30-150           | ±0.35 |                                                              |          |            |  | ANGLE |
| 10-30            | ±0.2  |                                                              |          |            |  |       |
| 5-10             | ±0.15 |                                                              |          |            |  |       |
| 0-5              | ±0.1  | ±3°                                                          |          |            |  |       |

| REV. | ECN NO. | DESCRIPTION | DRAW | DATE |
|------|---------|-------------|------|------|
|      |         |             |      |      |



## Electrical:

- Turn ratio: 5~6: J1~J2=1CT:1CT(+2%)  
1~2: J3~J6=1CT:1CT(+2%)
- 0CL: 350uH Min. @ 100KHz 100mV  
RMS(4Channel) 8mA DC BIAS
- Insertion Loss: -1.0 dB Max 1~100MHz
- Return loss: -20dB Min 1~10MHz;  
-16dB Min 10~30MHz  
-12dB Min 30~60MHz  
-10dB Min 60~80MHz
- Cross talk: -40dB Min 1~30MHz;  
-35dB Min 30~60MHz;  
-30dB Min 60~100MHz
- CMR: -30dB Min 1~100MHz;
- Hi-Pot: 500V AC
- Single port magnetic jack POE magnetics acc.  
To IEEE 802.3af for PSE or PD applications
- 100% of production tested to comply with  
IEEE 802.3 isolation requirements balanced DC  
line current 350mA max. @ 57V DC continuous.



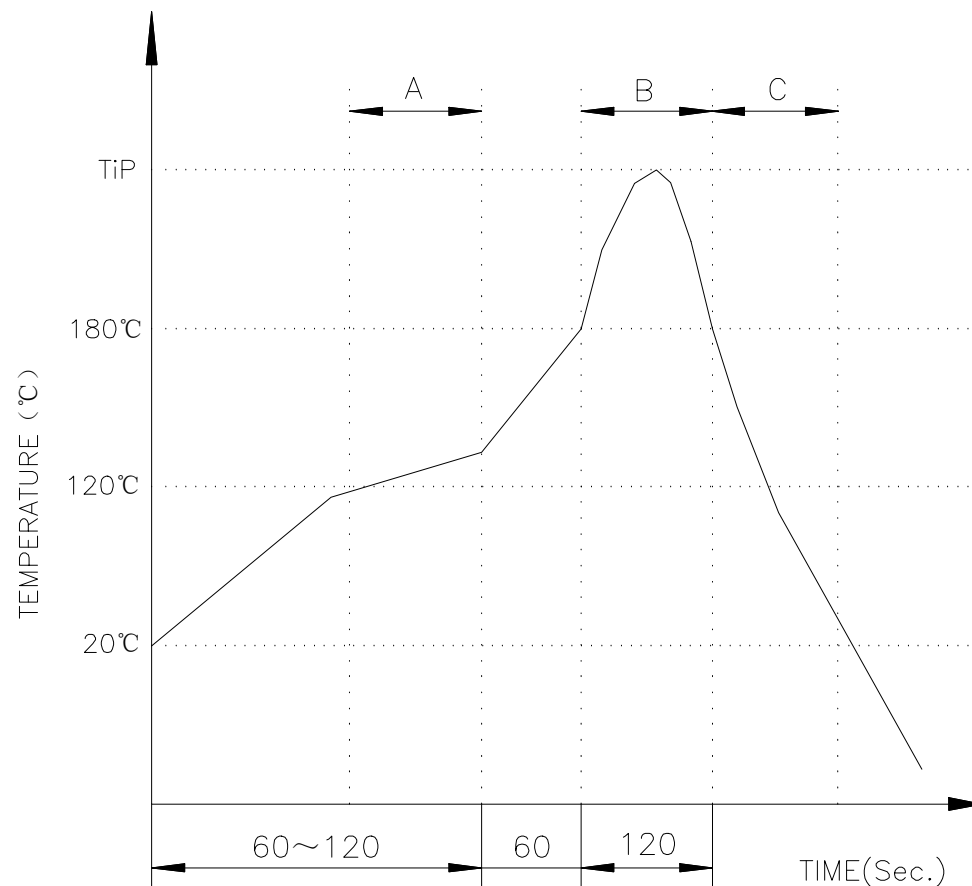
## LED Specification

| Standard LED Color | LED Wavelength | Foward(A) | Foward(V)  |
|--------------------|----------------|-----------|------------|
| Green              | 568nm          | 20mA      | 1.85-2.45V |
| Yellow             | 585nm          | 20mA      | 1.7-2.2V   |

|                  |       |                                                              |                             |            |    |
|------------------|-------|--------------------------------------------------------------|-----------------------------|------------|----|
| CUSTOMER DRAWING |       | LAILIAN 深圳市莱联电子有限公司<br>SHENZHEN LAILIAN ELECTRONICS CO., LTD |                             |            |    |
| DRAWING          |       |                                                              |                             |            |    |
| CHECKED          |       |                                                              |                             |            |    |
| APPROVED         |       |                                                              |                             |            |    |
| TOLERANCES ARE   |       | TITLE                                                        | TAB-DOWN 1X1 10/100BASE POE | REV.       | A  |
| 30-150           | ±0.35 | PART NO.                                                     | LAIL-RJ45-LED2-BY-09G-WC    | UNITS      | mm |
| 10-30            | ±0.2  |                                                              |                             |            |    |
| 5-10             | ±0.15 |                                                              |                             |            |    |
| 0-5              | ±0.1  | DWG. NO.                                                     |                             | Projection | ⊕  |

| REV. | ECN NO. | DESCRIPTION | DRAW | DATE |
|------|---------|-------------|------|------|
|      |         |             |      |      |

## PROFILE OF WAVE SOLDER



A.Preheating B.Soldering C.Gradual Cooling  
Tip temperature:260±5°C.  
Tip temperature time:5Sec Max.  
Tip melting point of Sn96.5/Ag3/Cu0.5:217°C.

Remarks: after wave soldering, the plastic positioning columns of the product which under the PCB will be slightly melted, but it won't affect its function.

|                  |       |       |                                                                                       |                             |       |    |
|------------------|-------|-------|---------------------------------------------------------------------------------------|-----------------------------|-------|----|
| COSTOMER DRAWING |       |       | LAILAN 深圳市莱联电子有限公司                                                                    |                             |       |    |
| DRAWING          |       |       | SHENZHEN LAILIAN ELECTRONICS CO., LTD                                                 |                             |       |    |
| CHECKED          |       |       |                                                                                       |                             |       |    |
| APPROVED         |       |       |                                                                                       |                             |       |    |
| TOLERANCES ARE   |       |       | TITLE                                                                                 | TAB-DOWN 1X1 10/100BASE POE | REV.  | A  |
| 30-150           | ±0.35 | ANGLE | PART NO.                                                                              | LAIL-RJ45-LED2-BY-09G-WC    | UNITS | mm |
| 10-30            | ±0.2  |       |                                                                                       |                             |       |    |
| 5-10             | ±0.15 |       |                                                                                       |                             |       |    |
| 0-5              | ±0.1  |       |                                                                                       |                             |       |    |
|                  |       |       | DWG. NO.                                                                              | Projection                  |       |    |
|                  |       |       |  |                             |       |    |