

# RJ45 CONNECTOR 8P

6234 SERIES



## Electrical

- Voltage rating: 125 VAC RMS
- Current rating: 1.5 AMP
- Contact resistance: 30 milliohms max
- Insulation resistance: 500 megaohms min 500 VDC
- Dielectric strength: 1000V AC RMS 50Hz or 60Hz 1min

## Mechanical

- Housing & insert material: PBT UL94V-0
- Contact material: Diameter 0.45mm phosphore bronze Gold plating over nickel
- Shield: 0.20 ~ 0.25mm thickness brass with tin plated
- Mating/unmating force: 2.2kg F max
- Retention strength: 7.7kg F min between jack and plug
- Operating life: 600 cycles min

## Environmental

- Storage: -10°C ~ +40°C relative humidity < 70%
- Operation: -40°C ~ +70°C

## Ordering Information

**6234DR1 - 08 X X 02**

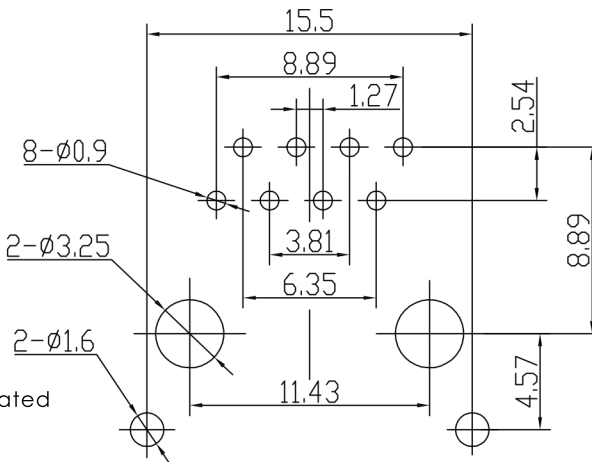
### 1. Connector Series

### 2. Contact Plating

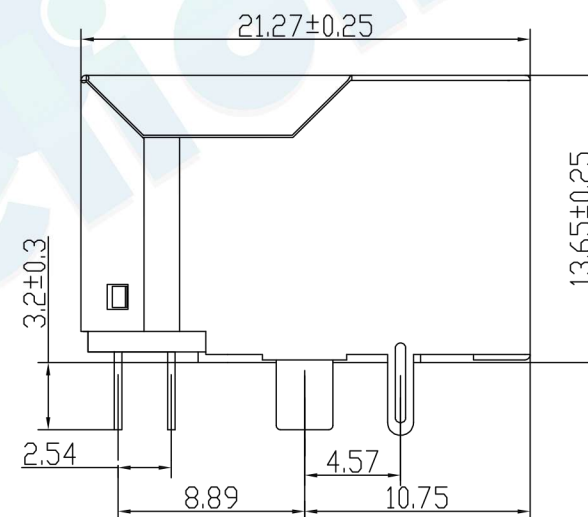
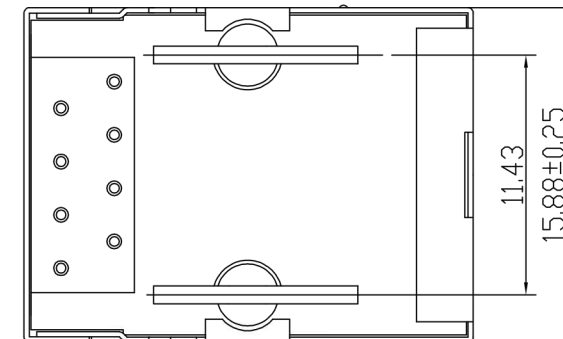
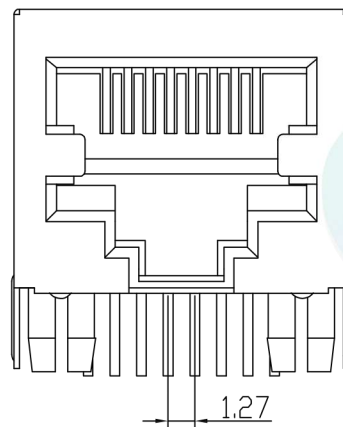
- A = Gold Flash
- B = 3U" Gold
- C = 5U" Gold
- D = Gold Flash/Tin
- E = 3U" Gold/Tin
- F = 5U" Gold/Tin


### 3. Insulation material option

- A = PBT
- B = PA66
- C = PA6T
- D = PA9T
- E = LCP

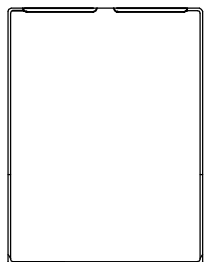


PC Board Layout

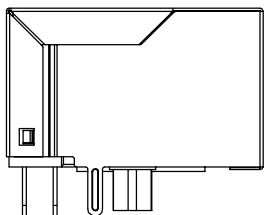


|     |            |                          |        | OPERATION |            | DRAW    | BEN | 12.04.18 | SCALE | FIT | <br>votre partenaire en électronique |                                      |
|-----|------------|--------------------------|--------|-----------|------------|---------|-----|----------|-------|-----|---|--------------------------------------|
|     |            |                          |        | X.X       | $\pm$ 0.30 |         |     |          |       |     |   |                                      |
|     |            |                          |        | X.XX      | $\pm$ 0.20 | CHECK   |     |          | SIZE  | A4  | PART NO.  | 6234DR1 - 08XX                       |
|     |            |                          |        | X.XXX     | $\pm$ 0.10 | APPROVE |     |          | SHEET | 1/1 |   |                                      |
| A0  | 2012.04.18 | NEW DRAWING              |        | Angle     | $\pm$ 3°   |         |     |          | PROJ. |     | TITLE:  | RJ45 8P8C connector 90° Dip H21.27mm |
| REV | DATE       | MODIFICATION DESCRIPTION | CHANGE | DIM       | TOL        |         |     |          |       |     |   |                                      |

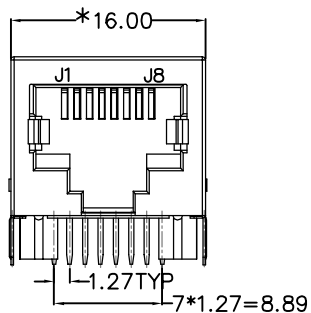
RoHS



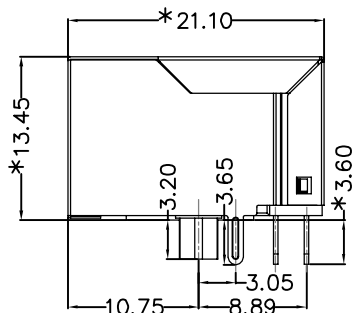
TOP VIEW



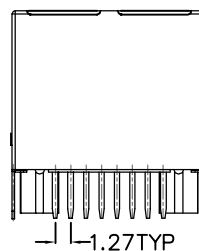
LEFT SIDE VIEW



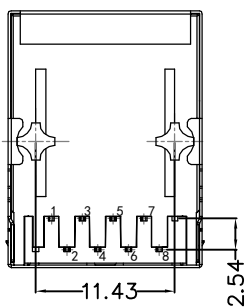
FRONT VIEW



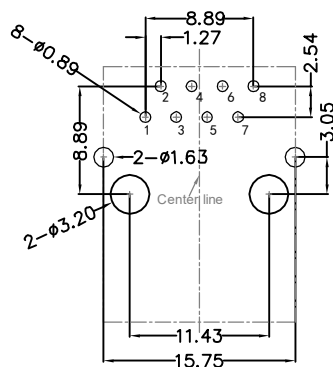
RIGHT SIDE VIEW



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,NICKEL PLATING ON ALL AREA.  
 TERMINAL: PHOSPHOR BRONZE C5210,T=0.35MM,  
 6U" GOLD PLATING ON CONTACT AREA.

**MECHANICAL:**

DURABILITY : 750 CYCLES MIN.  
 MATING FORCE : 23N MAX.  
 OPERATING TEMPERATURE: -40°C~+85°C.  
 STORAGE TEMPERATURE: -40°C~+85°C.  
 ALL CRITICAL DIMENSIONS WITH "\*"

CELION SAS

| GENERAL TOLERANCE |          |
|-------------------|----------|
| X. ± 0.35         | X.* ± 2" |
| .X ± 0.30         | .X* ± 1" |
| .XX ± 0.25        |          |
| .XXX ± 0.10       |          |

|       |     |
|-------|-----|
| SCALE | 1=1 |
| UNIT  | MM  |
| SIZE  | A4  |

|         |            |
|---------|------------|
| DRAWN   | Mark.chen  |
| CHECK   | Alex.zhang |
| APPROVE | Andy.xie   |

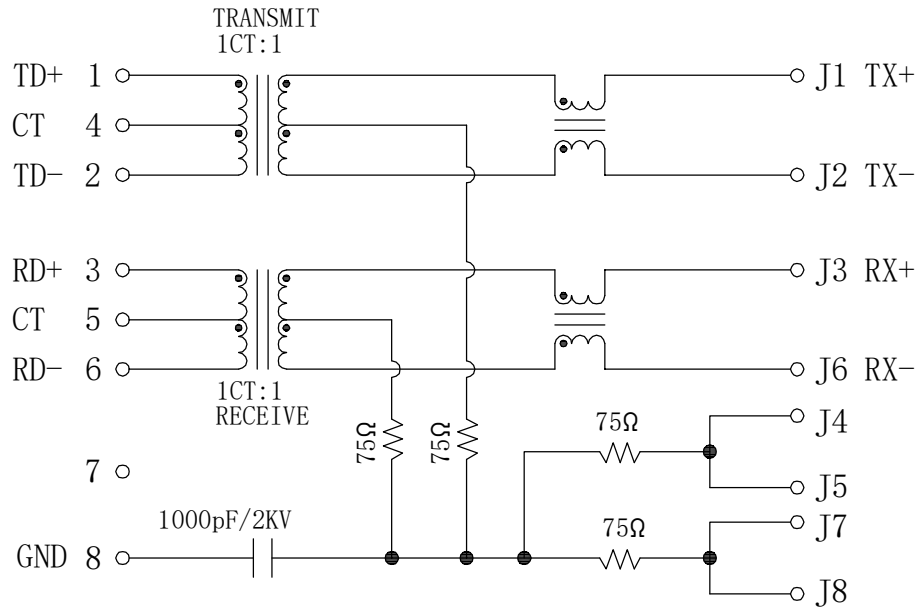
|      |  |
|------|--|
| DATE |  |
| DATE |  |
| DATE |  |

|                      |       |
|----------------------|-------|
| DESCRIPTION:         | REV.  |
| TAB-DOWN 1X1 100BASE | A     |
| PARTS NO.            | SHEET |
| 0002GWA1D            | 1/1   |

|       |     |
|-------|-----|
| REV.  | A   |
| SHEET | 1/1 |

RoHS

PCB SIDE TO PHY



CABLE SIDE

**Electrical:**

1. Turn ratio: 1~2: J1~J2=1CT:1CT(±2%).  
3~6: J3~J6=1CT:1CT(±2%).
2. OCL: 350uH Min. at 100KHz 100mV 8mA DC.
3. Insertion Loss: -1.0 dB Max 1~100MHz.
4. Return loss: -20dB Min 1~10MHz;  
-16dB Min 10~30MHz.  
-12dB Min 30~60MHz.  
-10dB Min 60~80MHz.
5. Cross talk: -40dB Min 1~30MHz;  
-35dB Min 30~60MHz;  
-30dB Min 60~100MHz;
6. CMR: -30dB Min 1~100MHz;
7. Hi-Pot: 1500V AC & 2250V DC  
6S 1mA PRI TO SEC

EDOM ELECTRONICS CO., LTD

| GENERAL TOLERANCE |          |
|-------------------|----------|
| X. ± 0.35         | X.* ± 2* |
| .X ± 0.30         | .X* ± 1* |
| .XX ± 0.25        |          |
| .XXX ± 0.10       |          |

|       |     |
|-------|-----|
| SCALE | 1=1 |
| UNIT  | MM  |
| SIZE  | A4  |

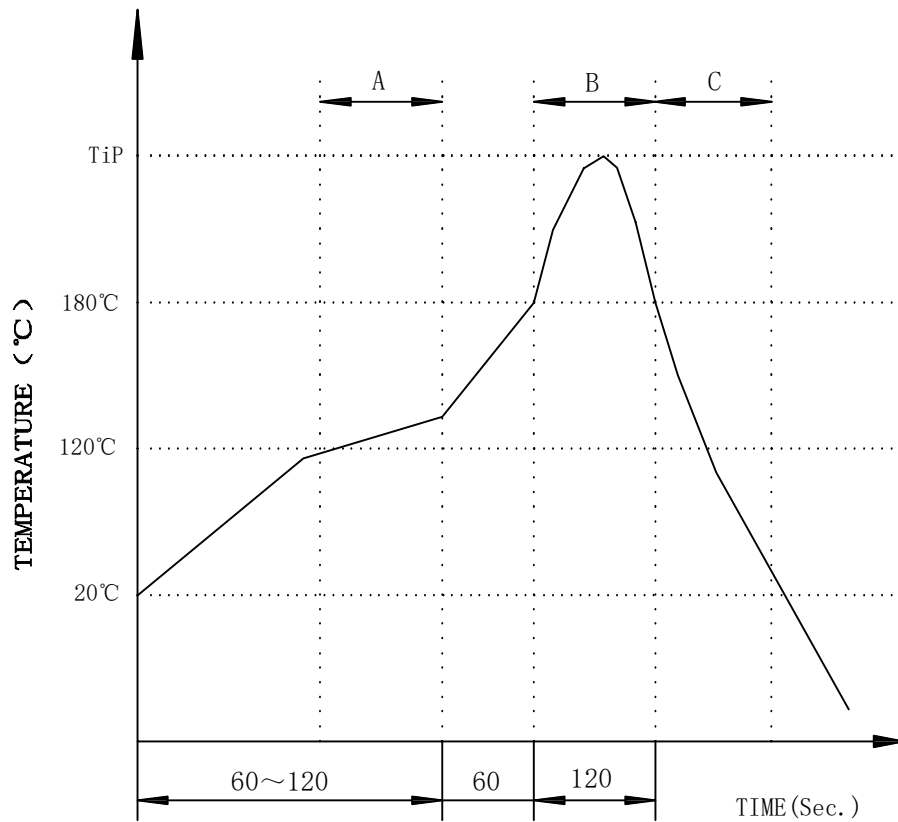
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| CHECK   | Alex.zhang |
| APPROVE | Andy.xie   |

|      |  |
|------|--|
| DATE |  |
| DATE |  |
| DATE |  |

|              |                      |
|--------------|----------------------|
| DESCRIPTION: | TAB-DOWN 1X1 100BASE |
| PARTS NO.    | 0002GWA1D            |

|       |     |
|-------|-----|
| REV.  | A   |
| SHEET | 1/1 |

# 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.

EDOM ELECTRONICS CO., LTD

| GENERAL TOLERANCE |          |
|-------------------|----------|
| X. ± 0.35         | X.* ± 2* |
| .X ± 0.30         | .X* ± 1* |
| .XX ± 0.25        |          |
| .XXX±0.10         |          |

SCALE 1=1  
 UNIT MM  
 SIZE A4



DRAWN Mark.chen  
 CHECK Alex.zhang  
 APPROVE Andy.xie

DATE  
 DATE  
 DATE

DESCRIPTION:  
**TAB-DOWN 1X1 100BASE**  
 PARTS NO. **0002GWA1D**

REV. A  
 SHEET 1/1