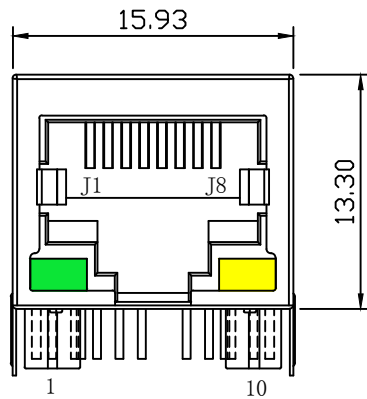
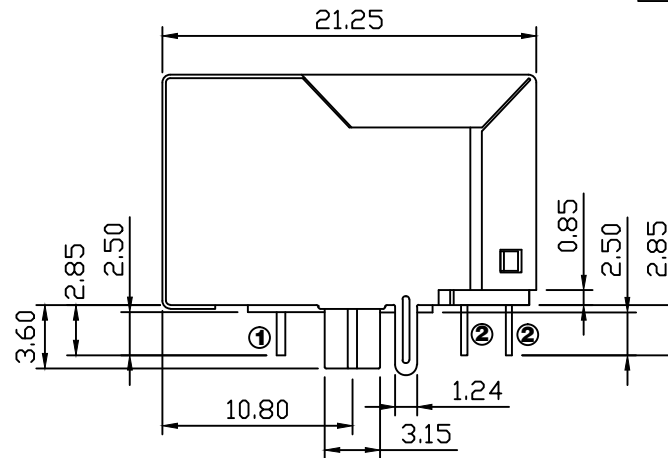


Mechanical:

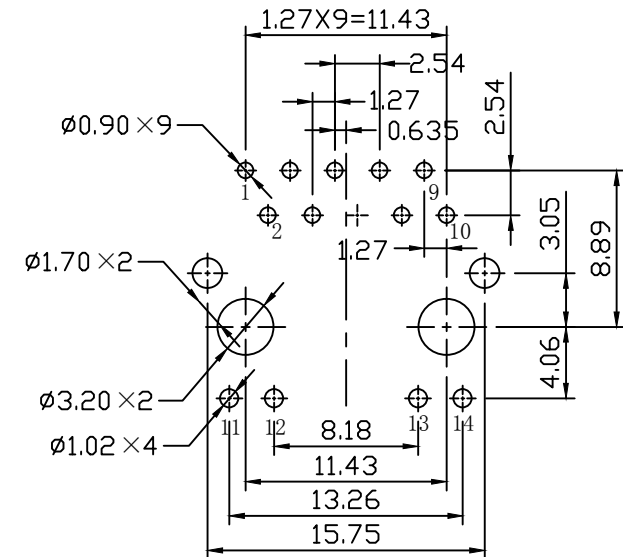
| REV. | ECN NO. | DESCRIPTION | DATE | APPD |
|------|---------|-----------------------|------------|------|
| A | REL | ① = 3.70mm ② = 4.00mm | 2017/06/26 | |
| B | REL | ① = 2.85mm ② = 2.85mm | 2022/06/15 | |



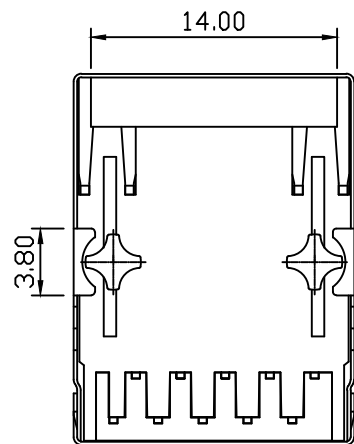
Front Side View



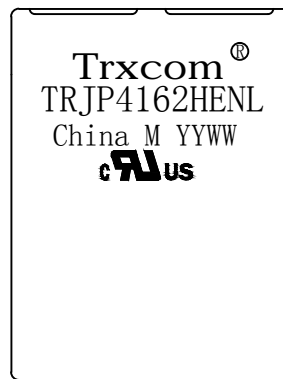
Left Side View



Suggested PCB Layout (Top View)



Bottom Side View



Top Side View

NOTES:

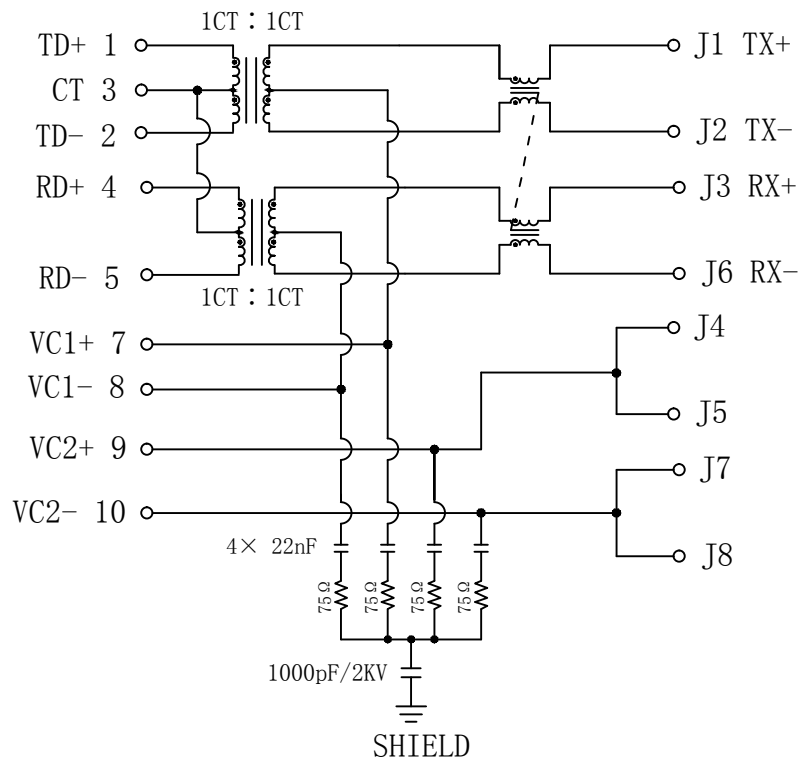
1. Designed to support application, such as SOHO (ADSL modems), LAN-on-Motherboard (LOM), hub and Switches.
2. Designed for PoE, IEEE802.3bt applications
3. Power on used or unused pairs for up to 1.2ADC.
4. Connector Materials:
 Housing: Thermoplastic PBT+30%G.F UL94V-0
 Contact: Phosphor Bronze C5210R-EH Thickness=0.35mm
 Pins: Brass C2680R-H Thickness=0.35mm
 Shield: SUS 201-1/2H Thickness=0.2mm
 Contact plating: Gold 6 micro-inches min. In contact area.
5. Wave solder tip temperature: 250°C, 5 Sec.
6. UL Certification: File Number E321120.

| | | |
|-------------|------------|--|
| X:X ±0.25 | APPD: | Trxcom Huizhou Trxcom Electronics Co., Ltd. |
| X:XX ±0.20 | CHKD: | |
| X:XXX ±0.05 | DR: SEA | TITLE: RJ45 Connector with 10/100 Base-T Integrated Magnetics For PoE++ Application |
| ANGLES ±1° | UNIT: mm | PART NO.: TRJP4162HENL |
| | SCALE: 2/1 | SHEET: 1/4 |
| | REV: B | DWG NO.: TRC22061501 |

Schematic:

| REV. | ECN NO. | DESCRIPTION | DATE | APPD |
|------|---------|--------------------------|------------|------|
| A | REL | ① = 3.70mm ② = 4.00mm | 2017/06/26 | |
| B | REL | ① = 2.85mm ② = 2.85mm | 2022/06/15 | |

PC BOARD CONNECTIONS

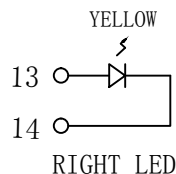
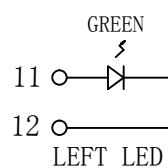


RJ45 CONNECTOR

Electrical Specifications @25°C

- Turns Ratio(±2%):
TX=1CT:1CT RX=1CT:1CT
- Inductance(@100KHz, 0.1V, 18mADC):
350uH Min
- Insertion Loss:
1-100MHz:-1.0 dB Max
- Return Loss(dB Min):
1-30MHz:-18 30-45MHz:-16
45-60MHz:-14 60-80MHz:-12
- Crosstalk:
1-100MHz:-30dB Typ
- Common Mode Rejection:
1-100MHz:-30dB Min
- Hipot: 1500Vrms Min @60Hz
- Operating Temperature: -40°C ~ +85°C.

| Emitting Color | λp(nm) | Vf@If=20mA | IR @VR=5V |
|----------------|--------|------------|-----------|
| YELLOW | 585 | 1.8~2.6V | 10 μA max |
| GREEN | 565 | 1.8~2.6V | 10 μA max |



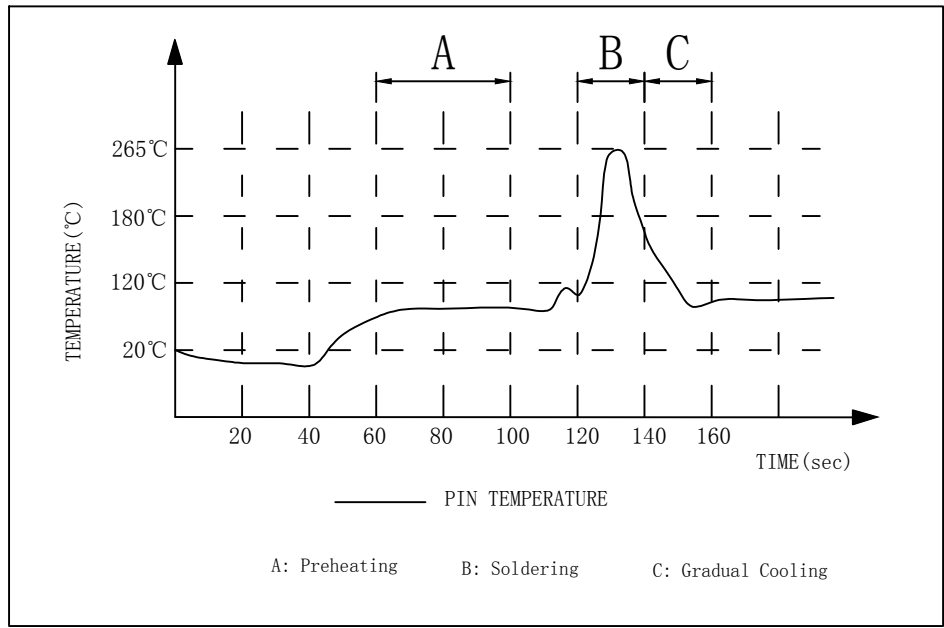
| | | |
|-------------|------------|--|
| X:X ±0.25 | APPD: | Trxcom |
| X:XX ±0.20 | CHKD: | |
| X:XXX ±0.05 | DR: SEA | TITLE: RJ45 Connector with 10/100 Base-T Integrated Magnetics For PoE++ Application |
| ANGLES ±1° | UNIT: mm | PART NO.: TRJP4162HENL |
| | SCALE: 2/1 | SHEET: 2/4 |
| | REV: B | DWG NO.: TRC22061501 |

Profile of wave solder:

| REV. | ECN NO. | DESCRIPTION | DATE | APPD |
|------|---------|--------------------------|------------|------|
| A | REL | ① = 3.70mm ② = 4.00mm | 2017/06/26 | |
| B | REL | ① = 2.85mm ② = 2.85mm | 2022/06/15 | |

SUGGESTED PROFILE OF WAVE SOLDER FOR ROHS PRODUCT

REV: A
 TEMP(°C): 25
 HUM(%): 65 RH

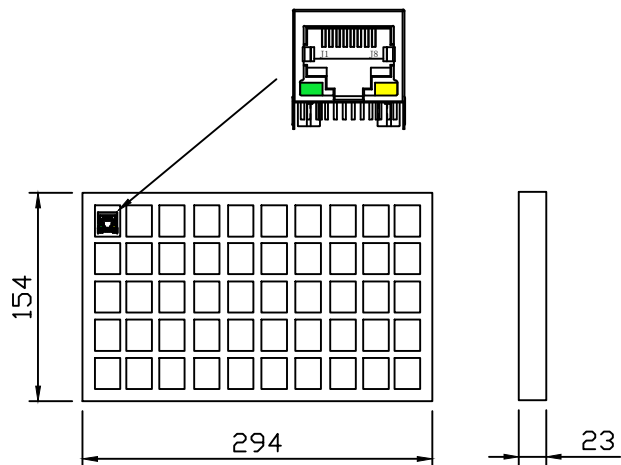


- (1) Tip Temperature: 265°C max
 - (2) Tip Temperature time: 5sec max
- Note: The melting point of Tin: 219°C

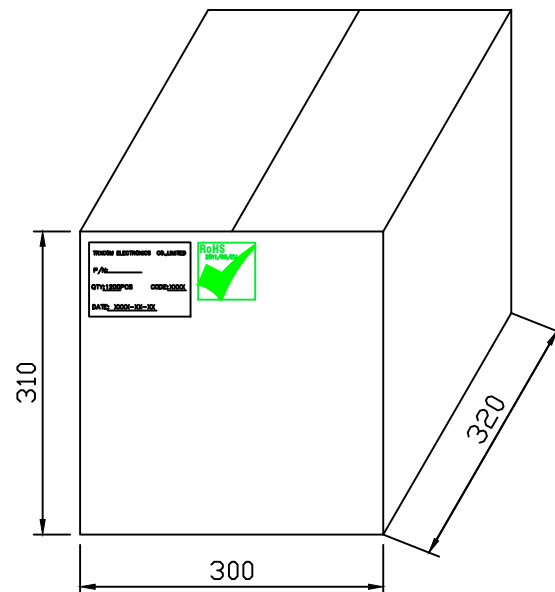
| | | |
|-------------|------------|--|
| X:X ±0.25 | APPD: | Trxcom |
| X:XX ±0.20 | CHKD: | |
| X:XXX ±0.05 | DR: SEA | TITLE: RJ45 Connector with 10/100 Base-T Integrated Magnetics For PoE++ Application |
| ANGLES ±1° | UNIT: mm | PART NO.: TRJP4162HENL |
| | SCALE: 2/1 | SHEET: 3/4 |
| | REV: B | DWG NO.: TRC22061501 |

Packaging:

| REV. | ECN NO. | DESCRIPTION | DATE | APPD |
|------|---------|--------------------------|------------|------|
| A | REL | ① = 3.70mm ② = 4.00mm | 2017/06/26 | |
| B | REL | ① = 2.85mm ② = 2.85mm | 2022/06/15 | |



24Tray →



- ◆ Packaging unit: 50pcs/tray
- ◆ Packaging material: PVC
- ◆ Outer carton unit: 1200pcs/24tray/box
- ◆ Net Weight: 8kg
- ◆ Gross Weight: 10kg

| | | |
|-------------|------------|---------------------------------|
| X:X ±0.25 | APPD: | Trxcom |
| X:XX ±0.20 | CHKD: | |
| X:XXX ±0.05 | DR: SEA | TITLE: 1*1 21.25mm RJ45 Packing |
| ANGLES ±1° | UNIT: mm | PART NO.: TRJP4162HENL |
| | SCALE: 2/1 | SHEET: 4/4 |
| | REV: B | DWG NO.: TRC22061501 |