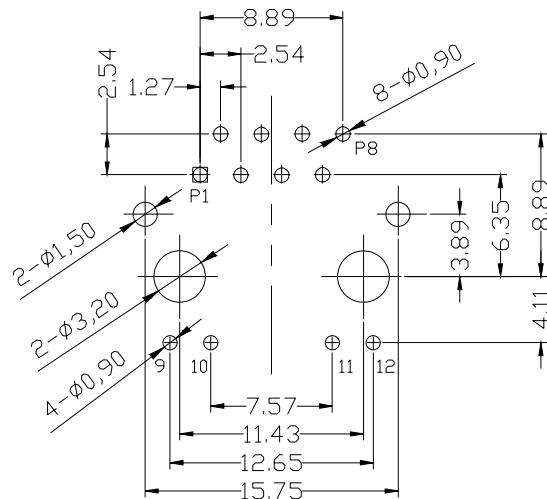
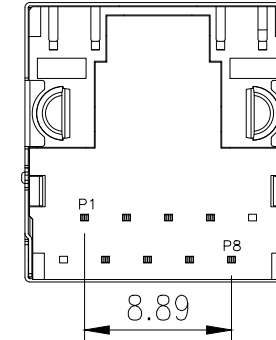
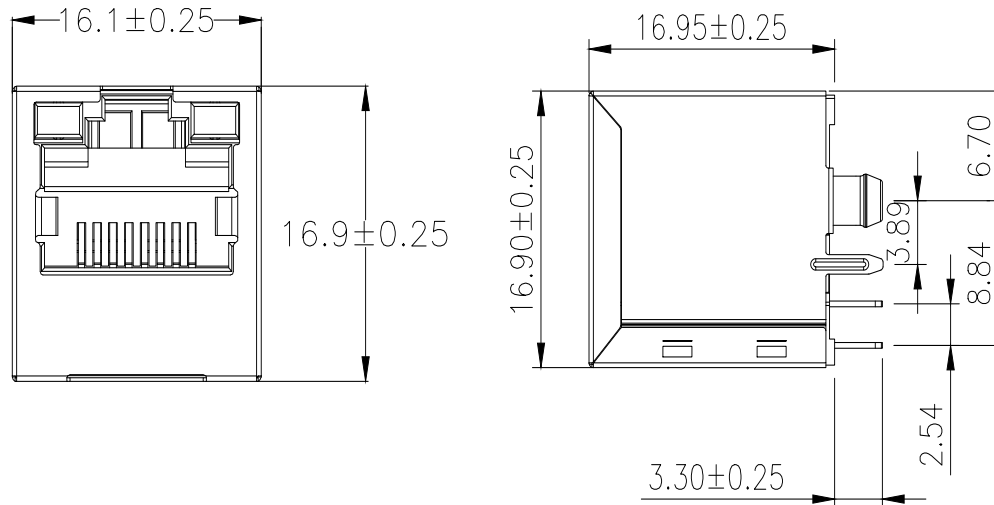


| NO. | ECN NO. | DESCRIPTION | REV. | DRAW | DATE |
|-----|---------|-------------|------|------|------|
|     |         |             |      |      |      |

Mechanical:



RECOMMENDED P.C.B LAYOUT(PCB THICKNESS: 1.6mm)  
COMPONENT SIDE VIEW(TOLERANCE: ±0.05mm)

Connect Material:

Housing :Thermoplastic,PBT,UL 94V-0,Black

Insert:Thermoplastic,PBT,UL 94V-0,Black

Contact/Shield:Copper alloy

Shield Plating:Nickel

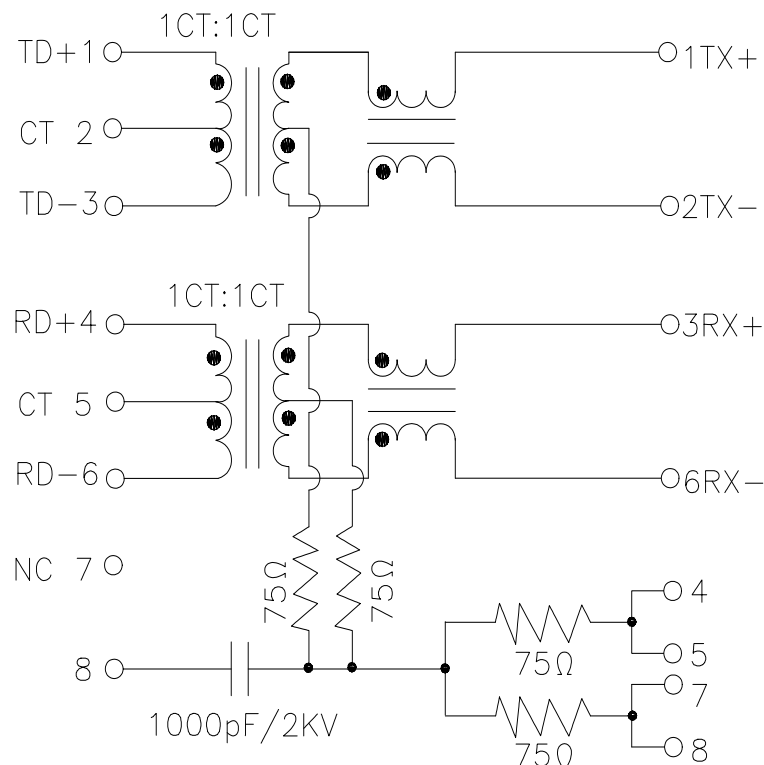
Contact Plating:Selective gold 6u" Min

Industrial operation temp.(-40°C to +85°C)

| TOLERANCE |        |       |                                                                                       | APPS Electronics Limited                                                              |  |          |                           |
|-----------|--------|-------|---------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------|--|----------|---------------------------|
| .X        | ±0.25  | X.°   | ±2°                                                                                   |  |  |          |                           |
| .XX       | ±0.15  | .X.°  | ±1°                                                                                   |                                                                                       |  |          |                           |
| .XXX      | ±0.075 |       |                                                                                       |                                                                                       |  |          |                           |
| SCALE     | 1:1    | PROJ. |  | DESIGN                                                                                |  | TITLE    | 1*1 RJ 180° 10/100 BASE-T |
| SHEET     | 1/2    | SIZE  | A4                                                                                    | CHECKED                                                                               |  | ITEM NO. | AE-RJU102A003H            |
| UNIT      | mm     | REV.  | A                                                                                     | APPROVE                                                                               |  | DWG NO.  |                           |

# Schematic:

PCB SIDE



CABLE SIDE

## Electrical Specifications @25°C

| Turns Ratio<br>(±2%) |         | OCL (uH Min.)<br>@100 KHz/0.1V<br>with 8mA DC Bias | Cross talk<br>(dB Min.) |        |        |         | Hi-POT<br>1.0 mA (V)   |                     |
|----------------------|---------|----------------------------------------------------|-------------------------|--------|--------|---------|------------------------|---------------------|
| TX                   | RX      |                                                    | 0.5-10 MHz              | 30 MHz | 50 MHz | 100 MHz | WITHOUT<br>CAPACITANCE | WITH<br>CAPACITANCE |
| 1CT:1CT              | 1CT:1CT | 350                                                | -50                     | -40    | -35    | -30     | 1500 AC                | 2250 DC             |

## Continue

| Insertion Loss<br>(dB Max.) |                              | Return Loss<br>(dB Min.) @ Load 100 OHM |           |        |           |                             | CMR<br>(dB Min.) |
|-----------------------------|------------------------------|-----------------------------------------|-----------|--------|-----------|-----------------------------|------------------|
| 1-100 MHz                   | 100-125 MHz<br>(10/100/1000) | 1-30 MHz                                | 30-50 MHz | 60 MHz | 60-80 MHz | 80-100 MHz<br>(10/100/1000) | 1-100 MHz        |
| -10                         | -1.2                         | -18                                     | -16       | -14    | -12       | -10                         | -30              |

## TOLERANCE

|      |        |     |     |
|------|--------|-----|-----|
| .X   | ±0.25  | X.° | ±2° |
| .XX  | ±0.15  | .X° | ±1° |
| .XXX | ±0.075 |     |     |



APPS Electronics Limited

| SCALE | 1:1 | PROJ. | DESIGN  | TITLE    | 1*1 RJ 180° 10/100 BASE-T |
|-------|-----|-------|---------|----------|---------------------------|
| SHEET | 2/2 | SIZE  | CHECKED | ITEM NO. | AE-RJU102A003H            |
| UNIT  | mm  | REV.  | APPROVE | DWG NO.  |                           |