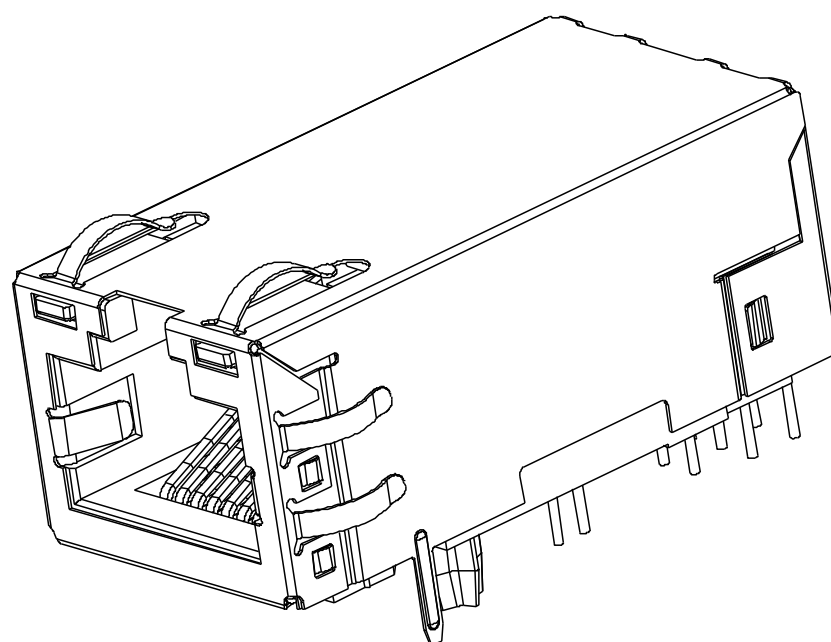
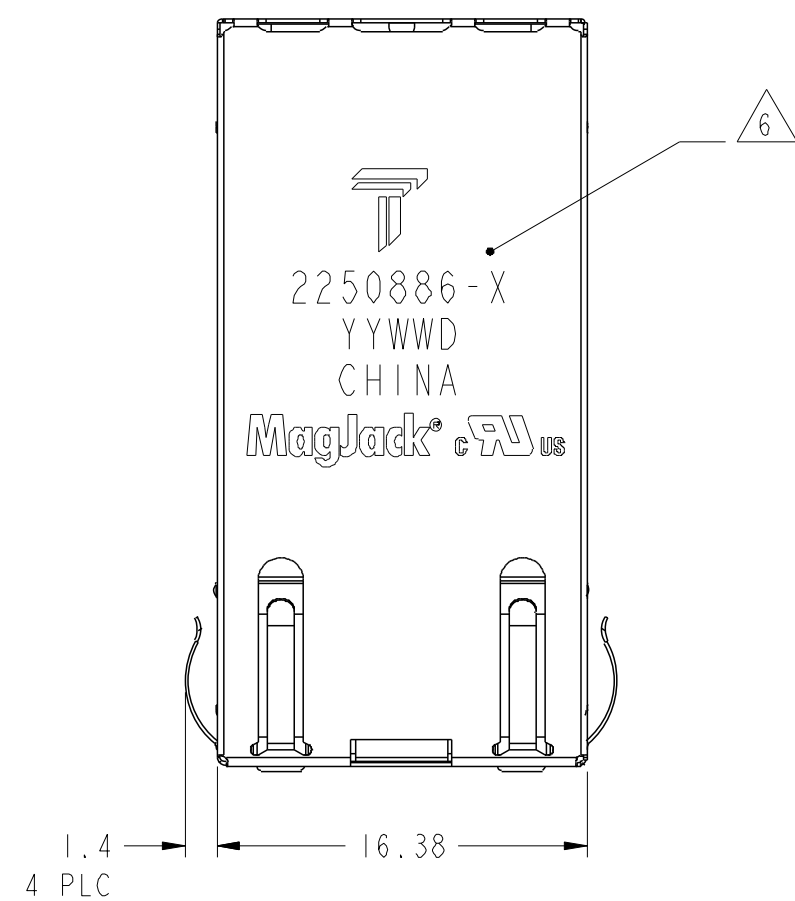


THIS DRAWING AND THE SUBJECT MATTER SHOWN THEREON ARE CONFIDENTIAL AND THE PROPERTY OF BEL/STEWART/TRP CONNECTOR AND SHALL NOT BE REPRODUCED, COPIED, OR USED IN ANY MANNER WITHOUT THE WRITTEN CONSENT OF TRP CONNECTOR.

PRODUCT MAY BE PROTECTED BY ONE OR MORE OF THE FOLLOWING US PATENTS:  
5736910 5939955 6425781 6428361 6554638 6840817 7123117  
7429195 7717749 7808751 6217391 6149050 7924130

| REVISIONS |     |                |           |     |      |
|-----------|-----|----------------|-----------|-----|------|
| P         | LTR | DESCRIPTION    | DATE      | DWN | APVD |
|           | 1   | SEE LAST SHEET | 11OCT2023 | TRY | TY   |
|           | 2   | SEE LAST SHEET | 15OCT2023 | TRY | TY   |



## 1. MATERIALS

HOUSING: THERMOPLASTIC, BLACK, FLAMMABILITY RATING UL 94V-0  
SHIELD: STAINLESS STEEL, 0.15mm THICK, PREPLATED WITH MIN 0.76 $\mu$ m SEMI-BRIGHT NICKEL  
POST DIPPED WITH 2.54 $\mu$ m MIN SAC SOLDER AT GROUND PINS.  
CONTACT: PHOSPHOR BRONZE, 0.46mmX0.30mm  
WITH 1.27 $\mu$ m MIN OVERALL NICKEL UNDERPLATE AND  
SELECTIVE 1.27 $\mu$ m MIN GOLD PLATING AT MATING INTERFACE.  
SOLDER TAIL (LED AND SIGNAL):  $\varnothing$ 0.45mm COPPER PLATED STEEL, PLATED WITH  
2.54 $\mu$ m MIN TIN.

2 MAGNETICS

- APPLICATION: 10G BASE-T 4PPoE EXTENDED TEMPERATURE
- IMPEDANCE: 100 OHMS
- TURNS RATIO (CHIP: CABLE): 1:1 ALL FOUR PAIRS
- OPEN CIRCUIT INDUCTANCE (OCL): ALL CHANNELS
  - 160uH MIN @100kHz, 0.1VRMS, 8mA DC BIAS FROM -40°C TO 85°C,
  - 120uH MIN @100kHz, 0.1VRMS, 23mA DC BIAS FROM -40°C TO 85°C.
- ALL FOUR PAIRS BI-DIRECTIONAL
- PoE CURRENT: 1A DC MAX
- PERFORMANCE @ 25°C: PLEASE REFER TO SEPARATE SHEET
- ISOLATION VOLTAGE: 2250VDC FOR 60 SECONDS WITH A RISE TIME OF 500V/SEC.

3. OPERATING TEMPERATURE: -40°C TO 85°C

4

4) LIGHT PIPES ARE USED TO TRANSMIT LIGHT OF LED.  
LEDS ARE DRIVEN WITH CONSTANT CURRENT AT APPROX 20mA.  
LED COLOR: DOMINANT WAVELENGTH (λD): GREEN 567nm TYP. at IF=20mA  
FORWARD VOLTAGE (VF): GREEN 2.2V TYP. at IF=20mA  
DOMINANT WAVELENGTH (λD): YELLOW 587nm TYP. at IF=20mA  
FORWARD VOLTAGE (VF): YELLOW 2.1V TYP. at IF=20mA

5

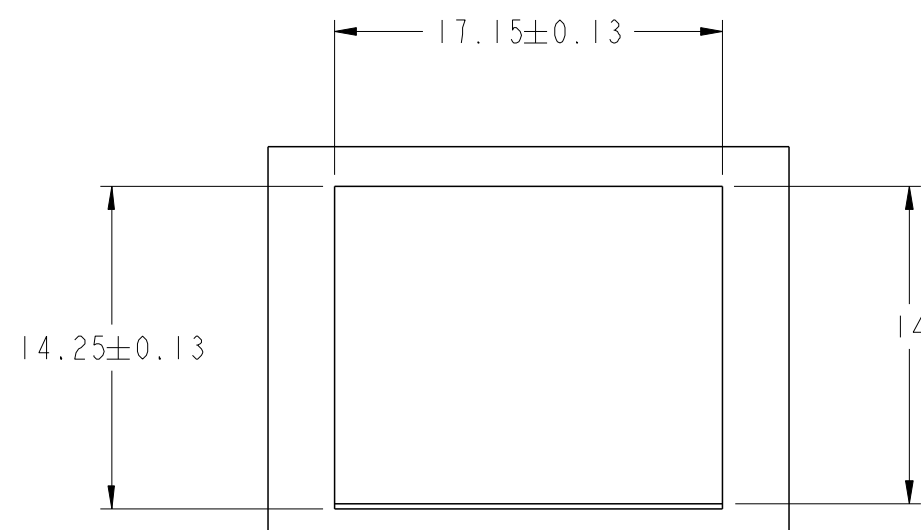
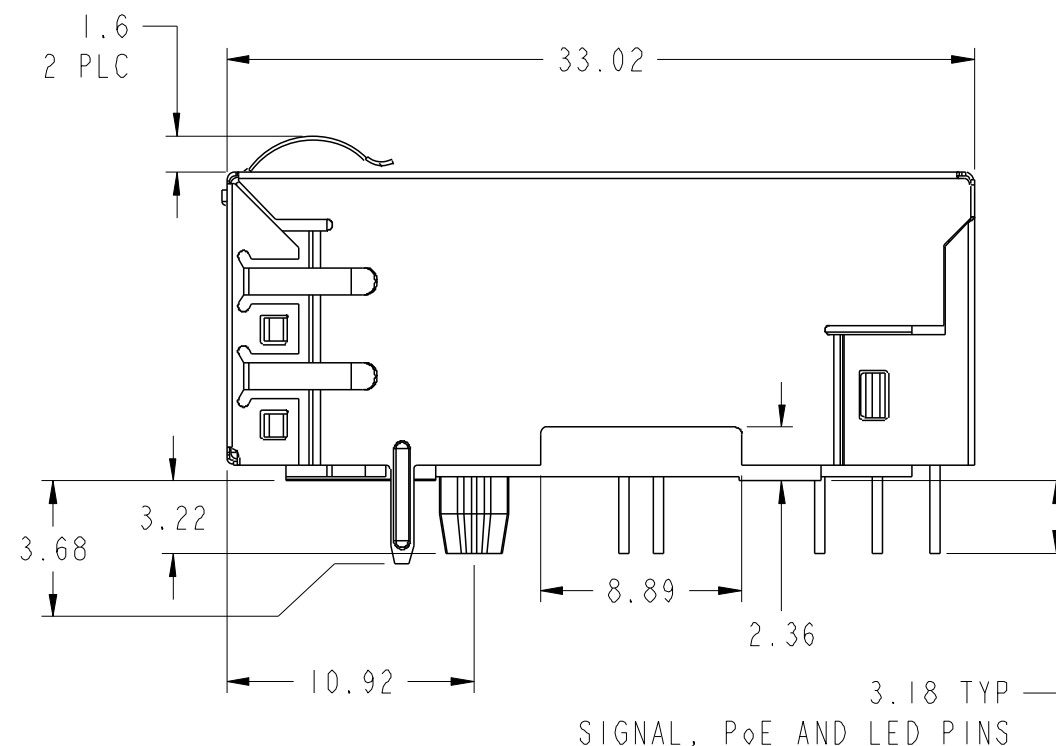
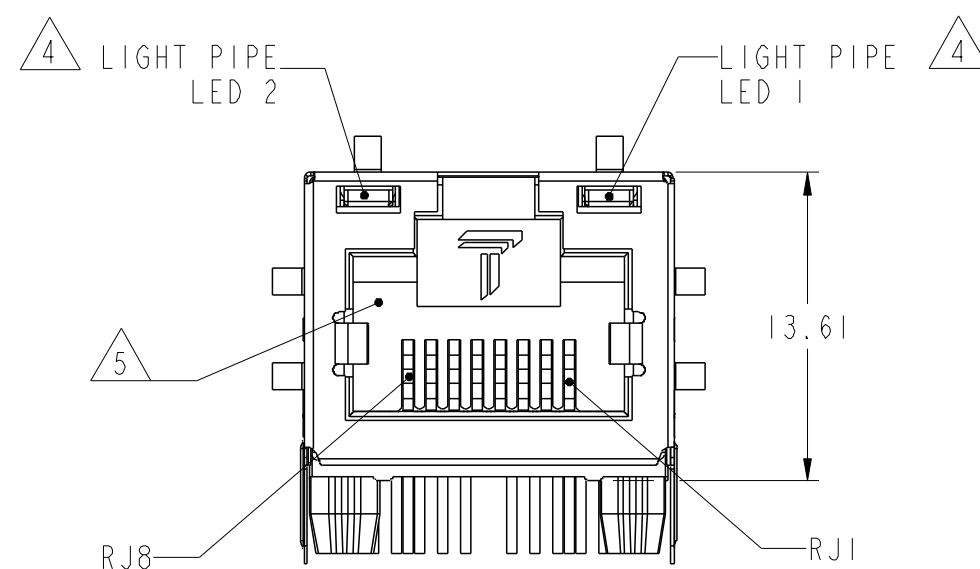
5 RJ45 CAVITY CONFORMS TO FCC RULES AND REGULATION PART 68 SUBPART F.

6

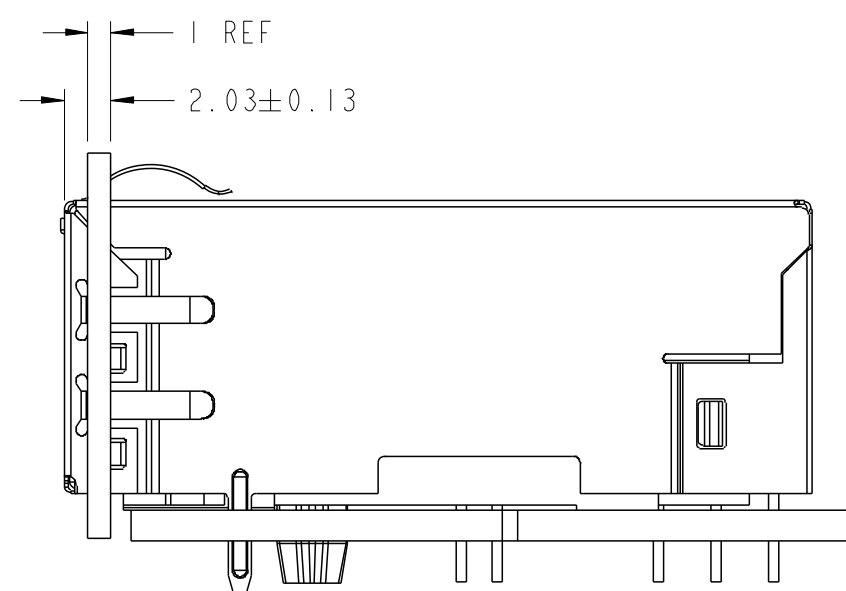
6 TRP CONNECTOR LOGO, PART NUMBER, DATE CODE, COUNTRY OF ORIGIN,  
AGENCY APPROVAL MARKING IN APPROPRIATE LOCATION SHOWN. DATE CODE: YYWW  
"YY" IS YEAR, "WW" IS WORK WEEK, "D" IS DAY OF WEEK, WITH SUNDAY=1.

7.

. PART SHOULD BE RECOMMENDED FOR WAVE SOLDERING PROCESS, PEAK WAVE SOLDERING TEMPERATURE IS 260°C, 10 SECOND MAX.



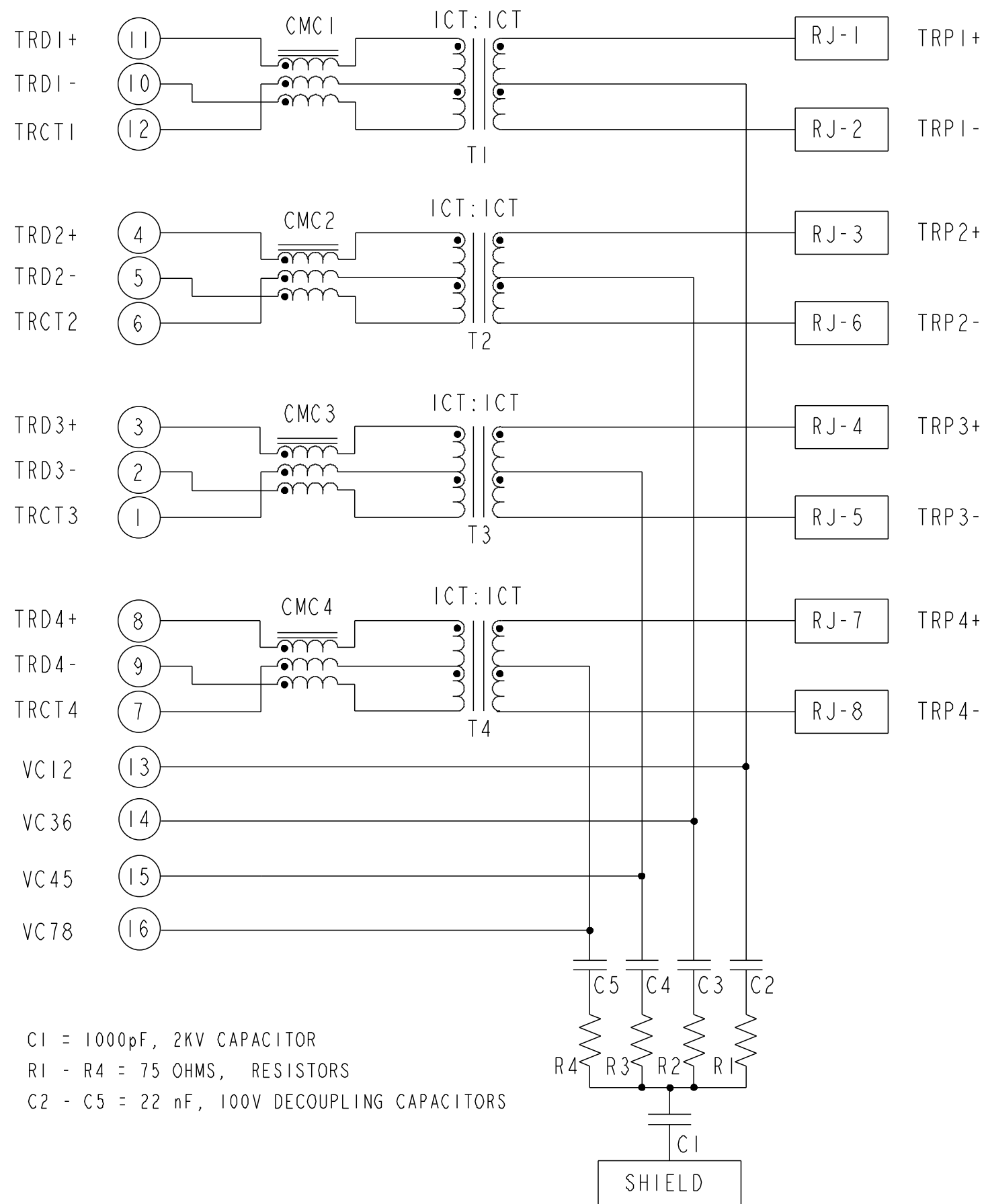
SUGGESTED PANEL CUTOUT



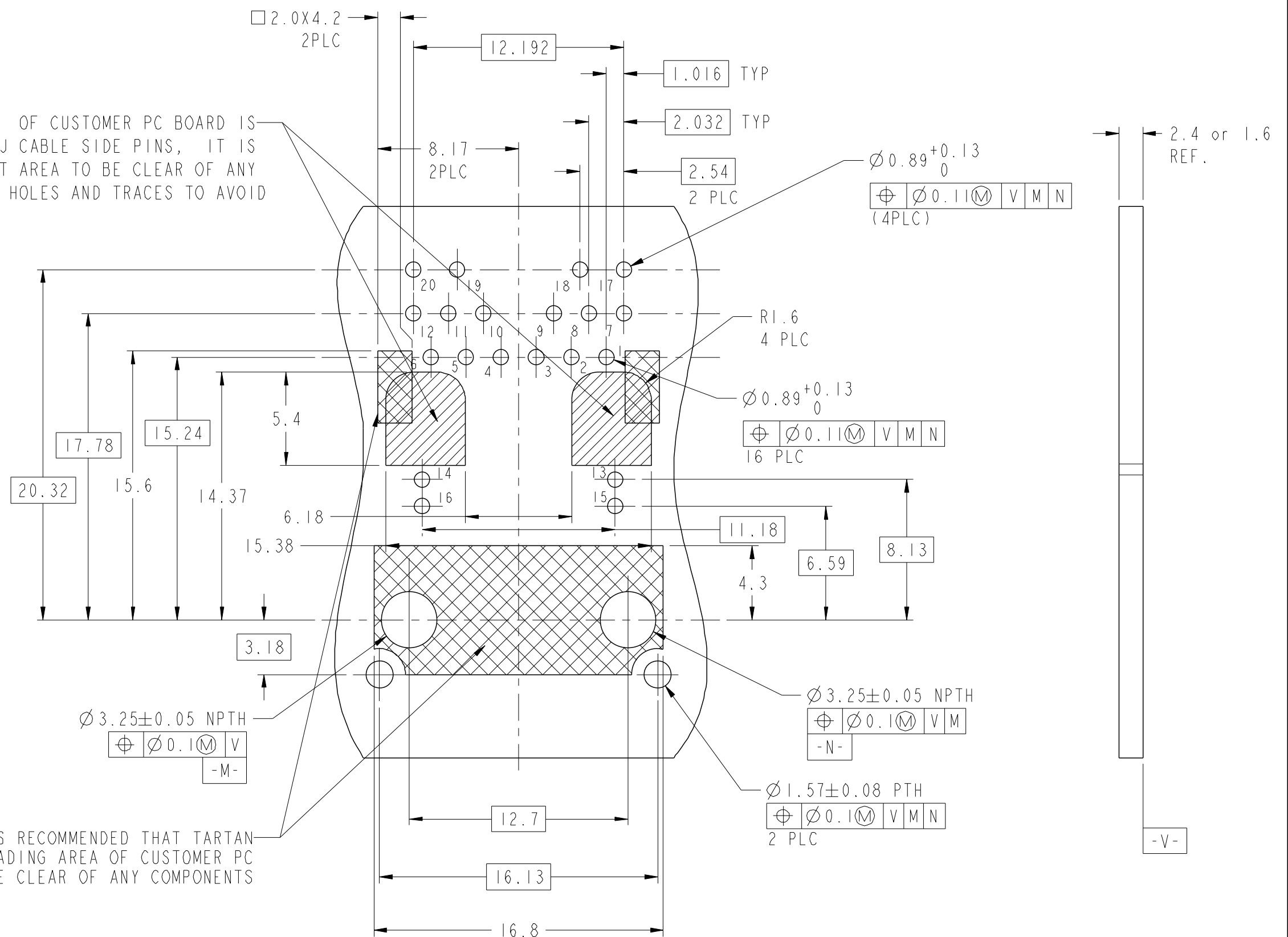
CONNECTOR ASSEMBLED  
TO PANEL AND PCB

|                                                                                                            |  |                                                                                                                                             |  |                                                                                                                                             |                        |
|------------------------------------------------------------------------------------------------------------|--|---------------------------------------------------------------------------------------------------------------------------------------------|--|---------------------------------------------------------------------------------------------------------------------------------------------|------------------------|
| THIS DRAWING IS A CONTROLLED DOCUMENT.<br>AND COMPLIANT TO ASME Y14.5M                                     |  | DWN 110CT2023<br>TOWER YU / XENIA WANG<br>CHK 110CT2023<br>BILL LIU<br>APVD 110CT2023<br>TONY YUAN<br>MODEL NAME                            |  |  <b>trp</b> CONNECTOR<br>a bel group<br>DONGGUAN CHINA |                        |
| DIMENSIONS:<br>mm<br> |  | TOLERANCES, UNLESS OTHERWISE SPECIFIED:<br>0 PLC ±<br>1 PLC ±0.25<br>2 PLC ±0.25<br>3 PLC ±0.25<br>4 PLC ±<br>ANGLES ±-<br>APPLICATION SPEC |  | DESC<br>1X1 7UTG0IRET 10G 4PPoE 100W<br>EXTENDED TEMPERATUR TAB UP, W/ LEDS                                                                 |                        |
| PRODUCT SPEC<br>108-104004                                                                                 |  | MAGJACK<br>SINGLE 4PPOE                                                                                                                     |  | SIZE<br>A2                                                                                                                                  | CAGE CODE<br>C-2250886 |
|                                                                                                            |  | CUSTOMER DRAWING                                                                                                                            |  | DRAWING NO<br>C-2250886                                                                                                                     | RESTRICTED TO<br>-     |
|                                                                                                            |  |                                                                                                                                             |  | SCALE<br>NTS                                                                                                                                | SHEET<br>1 OF 3        |
|                                                                                                            |  |                                                                                                                                             |  | REV<br>2                                                                                                                                    |                        |

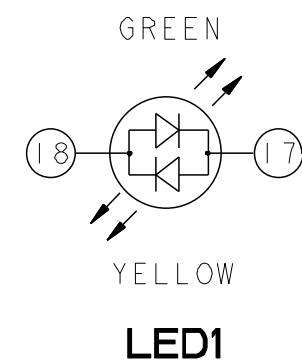
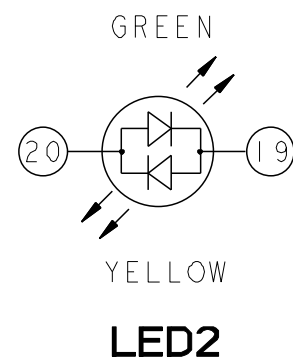
# 7UTG0IRET 10 GIGABIT 100W CIRCUIT 2



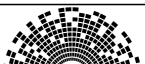
THE SHADED AREA OF CUSTOMER PC BOARD IS EQUIVALENT TO RJ CABLE SIDE PINS, IT IS RECOMMENDED THAT AREA TO BE CLEAR OF ANY COMPONENTS, VIA HOLES AND TRACES TO AVOID HI-POT FAILURE



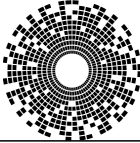
IT IS RECOMMENDED THAT TARTAN SHADING AREA OF CUSTOMER PC BOARD BE CLEAR OF ANY COMPONENTS



SUGGESTED PCB FOOTPRINT COMPONENT SIDE

|                                                                                       |  |                                                                                                 |  |                                     |  |                                                                                                                              |  |                        |  |                         |  |                    |  |         |  |          |  |
|---------------------------------------------------------------------------------------|--|-------------------------------------------------------------------------------------------------|--|-------------------------------------|--|------------------------------------------------------------------------------------------------------------------------------|--|------------------------|--|-------------------------|--|--------------------|--|---------|--|----------|--|
| THIS DRAWING IS A CONTROLLED DOCUMENT.<br>AND COMPLIANT TO ASME Y14.5M                |  | DWN<br>TOWER YU / XENIA WANG<br>CHK<br>BILL LIU<br>APVD<br>TONY YUAN<br>MODEL NAME              |  | 11OCT2023<br>11OCT2023<br>11OCT2023 |  | <br><b>trp</b> CONNECTOR<br>a bel group |  | DONGGUAN<br>CHINA      |  |                         |  |                    |  |         |  |          |  |
| DIMENSIONS:<br>mm                                                                     |  | TOLERANCES UNLESS<br>OTHERWISE SPECIFIED:                                                       |  | DESC                                |  | 1X1 7UTG0IRET 10G 4PPoE 100W<br>EXTENDED TEMPERATUR TAB UP, W/ LEDS                                                          |  |                        |  |                         |  |                    |  |         |  |          |  |
|  |  | 0 PLC ±<br>1 PLC ±0.25<br>2 PLC ±0.25<br>3 PLC ±0.25<br>4 PLC ±<br>ANGLES ±<br>APPLICATION SPEC |  | MAGJACK<br>SINGLE 4PPOE             |  | SIZE<br>A2                                                                                                                   |  | CAGE CODE<br>C=2250886 |  | DRAWING NO<br>C=2250886 |  | RESTRICTED TO<br>- |  |         |  |          |  |
| PRODUCT SPEC<br>108-104004                                                            |  | -                                                                                               |  | CUSTOMER DRAWING                    |  |                                                                                                                              |  |                        |  | SCALE<br>NTS            |  | SHEET<br>2         |  | OF<br>3 |  | REV<br>2 |  |

| 2250886_C        |     |                                                 |                  |           | STOCK DISPOSITION                       |                                 |                                                  |                                |
|------------------|-----|-------------------------------------------------|------------------|-----------|-----------------------------------------|---------------------------------|--------------------------------------------------|--------------------------------|
|                  |     |                                                 |                  |           | A:CONTINUE AS IS<br>B:REWORK<br>C:SCRAP |                                 | D:USE OLD FIRST<br>E:PARTS TO CONFORM<br>F:OTHER |                                |
| REVISION HISTORY |     |                                                 |                  |           |                                         |                                 |                                                  |                                |
| DATE             | REV | CHANGE                                          | REASON           | APPROVAL  | INVENTORY<br>(A,B,C,D,E,F)              | WORK<br>IN PROCESS<br>(A,B,C,D) | SUPPLIER<br>ORDERS<br>(A,E,F)                    | OPEN CUST<br>ORDERS<br>(A,E,F) |
| 11OCT2023        | 1   | -                                               | INITIAL RELEASE  | TONY YUAN | -                                       | -                               | -                                                | -                              |
| 15OCT2023        | 2   | SHEET 2, B1-B2: REDRAW LEDS POLARITY SCHEMATICS | CUSOTMER REQUEST | TONY YUAN | -                                       | -                               | -                                                | -                              |

|                                                                        |  |                                                                                                                                              |  |                                                                                                                           |           |                                                                     |                             |
|------------------------------------------------------------------------|--|----------------------------------------------------------------------------------------------------------------------------------------------|--|---------------------------------------------------------------------------------------------------------------------------|-----------|---------------------------------------------------------------------|-----------------------------|
| THIS DRAWING IS A CONTROLLED DOCUMENT.<br>AND COMPLIANT TO ASME Y14.5M |  | DWN 11OCT2023<br>TOWER YU / XENIA WANG<br>CHK 11OCT2023<br>BILL LIU<br>APVD 11OCT2023<br>TONY YUAN<br>MODEL NAME                             |  |  <b>trp</b> CONNECTOR<br>a bel group |           | DONGGUAN<br>CHINA                                                   |                             |
| DIMENSIONS:<br>mm                                                      |  | TOLERANCES UNLESS<br>OTHERWISE SPECIFIED:<br>0 PLC ±<br>1 PLC ±0.25<br>2 PLC ±0.25<br>3 PLC ±0.25<br>4 PLC ±<br>ANGLES ±<br>APPLICATION SPEC |  | DESC<br>MAGJACK<br>SINGLE 4PPOE                                                                                           |           | IXI 7UTG01RET 10G 4PPoE 100W<br>EXTENDED TEMPERATUR TAB UP, W/ LEDS |                             |
| PRODUCT SPEC<br>108-104004                                             |  |                                                                                                                                              |  | SIZE<br>A2                                                                                                                | CAGE CODE | DRAWING NO<br>C-2250886                                             | RESTRICTED TO<br>-          |
| CUSTOMER DRAWING                                                       |  |                                                                                                                                              |  |                                                                                                                           |           | SCALE<br>NTS                                                        | SHEET<br>3 OF 3<br>REV<br>2 |