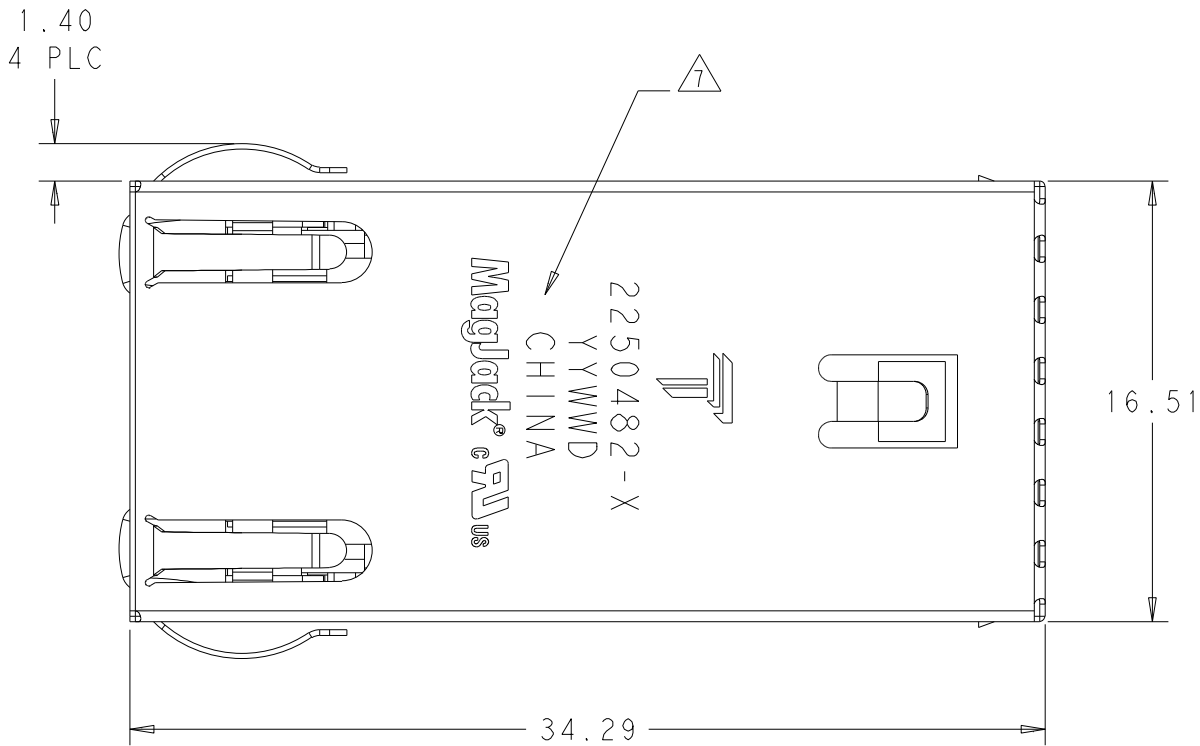
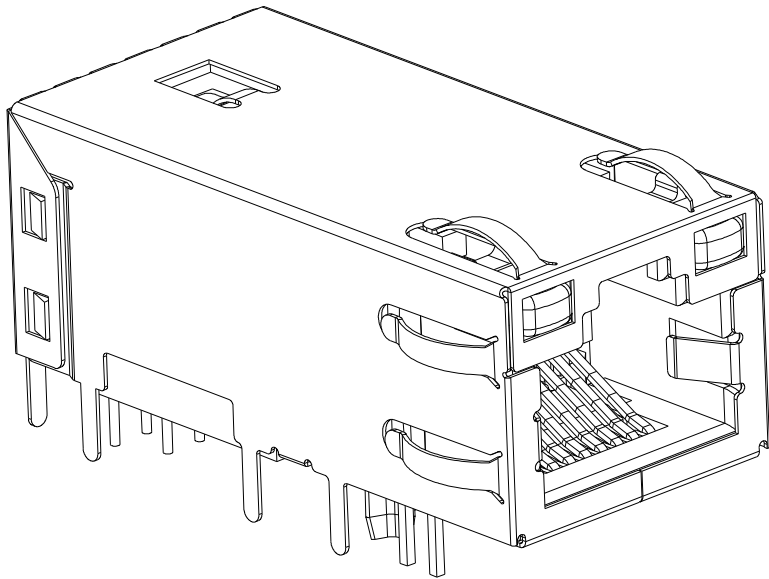


THIS DRAWING AND THE SUBJECT MATTER SHOWN THEREON ARE CONFIDENTIAL AND THE PROPERTY OF BEL/STEWART/TRP CONNECTOR AND SHALL NOT BE REPRODUCED, COPIED, OR USED IN ANY MANNER WITHOUT THE WRITTEN CONSENT OF TRP CONNECTOR.

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 |
| 1         |     | INITIAL RELEASE | 22DEC2016 | DP  |



1. MATERIALS:
- HOUSING: THERMOPLASTIC, FLAMMABILITY, RATING UL 94V-0.
  - SHIELD: 0.20mm THICK, COPPER BASE ALLOY PREPLATED WITH 0.76um MIN BRIGHT NICKEL; ALL GROUND LEADS ARE SOLDER DIPPED.
  - MOD JACK CONTACTS: 0.3mm THICK, PHOSPHOR BRONZE, 1.27um MIN OVERALL NICKEL UNDERPLATE, WITH 1.27um MIN LOCALIZED GOLD PLATE AT CONTACT INTERFACE.
  - LIGHT EMITTING DIODE (LED): DIFFUSED EPOXY LENS, 0.5mm X 0.5mm CARBON STEEL WIREFRAME LEADS PREPLATED WITH 2.03um MIN. SILVER PLATE OVER 1.02um MIN. NICKEL OVER 1.02um MIN. COPPER UNDERPLATE; LEADS POST-PLATED WITH 2.54um MIN. MATTE TIN, AND TIP TIN DIPPING.

2. MAGNETICS:
- APPLICATION: 1G/10G BASE-T,
  - IMPEDANCE: 100 OHMS
  - TURNS RATIO (CHIP:CABLE): 1:1 ALL FOUR PAIRS
  - OPEN CIRCUIT INDUCTANCE (OCL): 160uH MIN @ 100kHz, 0.1VRMS FROM 0°C TO 70°C, ALL FOUR PAIRS
  - ALL FOUR PAIRS BI-DIRECTIONAL
  - PERFORMANCE @ 25°C: PLEASE REFER TO SEPERATE SHEET.
  - ISOLATION VOLTAGE: 2250VDC FOR 60 SECONDS WITH A RISE TIME OF 500V/SEC.

3. OPERATING TEMPERATURE: FROM 0°C TO 70°C

4. RJ45 JACK CAVITY CONFORMS TO FCC RULES AND REGULATIONS PART 68, SUB-PART F.

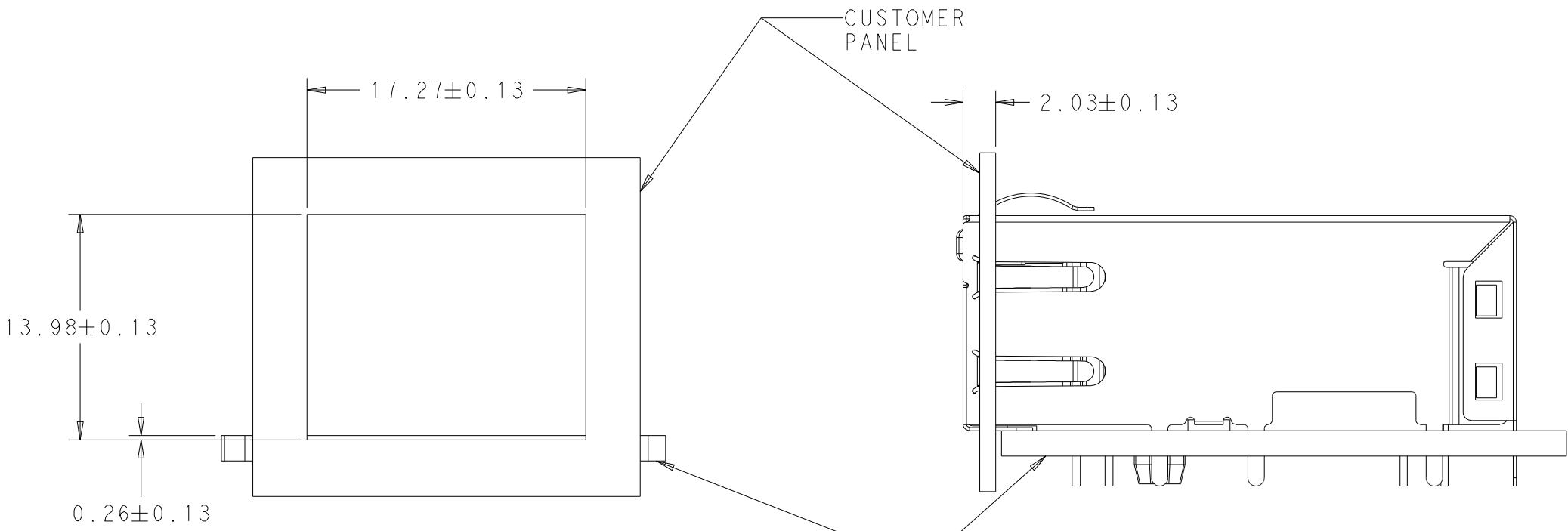
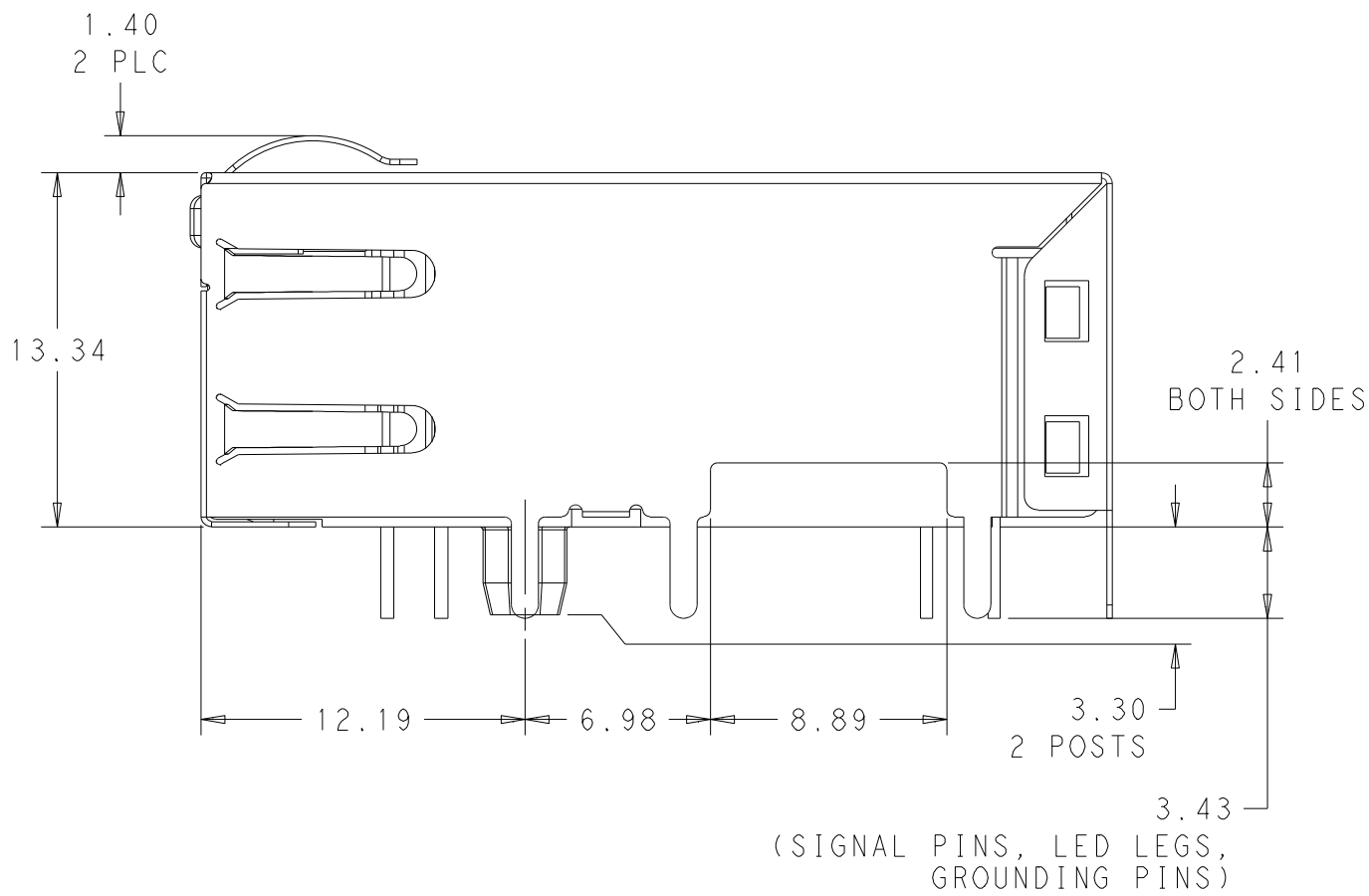
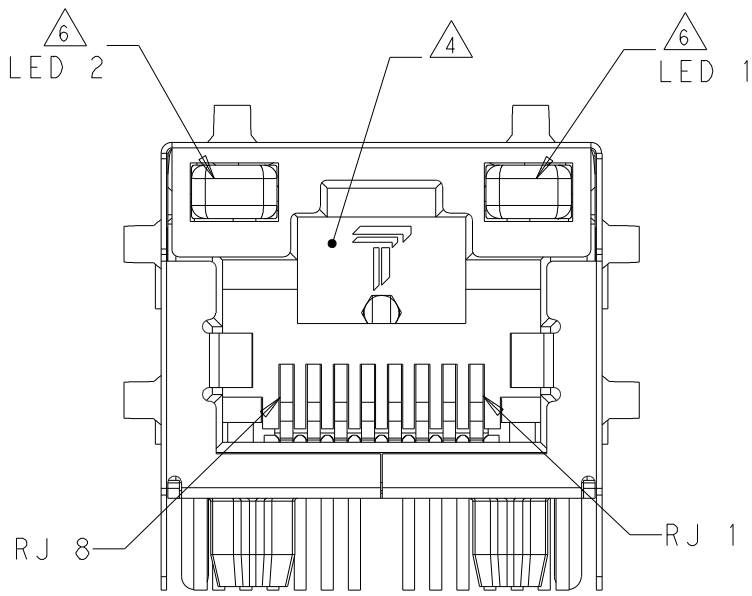
5. ALL DIMENSIONS ARE NOMINAL UNLESS OTHERWISE NOTED.

6. LED IS DRIVEN WITH CONSTANT CURRENT AT APPROX 20mA.
- LED COLOR: DOMINANT WAVELENGTH (λD): GREEN 568 nm TYP. @ IF=20mA  
FORWARD VOLTAGE (VF): GREEN 2.2V TYP. @ IF=20mA  
DOMINANT WAVELENGTH (λD): YELLOW 588 nm TYP. @ IF=20mA  
FORWARD VOLTAGE (VF): YELLOW 2.1V TYP. @ IF=20mA

7. TRP CONNECTOR LOGO, PART NUMBER, DATE CODE, COUNTRY OF ORIGIN, AND AGENCY APPROVAL MARKING IN APPROXIMATE LOCATION SHOWN, DATE CODE: YYWD WHERE YY IS YEAR, WW IS WORK WEEK, D IS DAY OF WEEK, WITH SUNDAY=1.

8. DATUM Y AND BASIC DIMENSION ESTABLISH BY CUSTOMER.

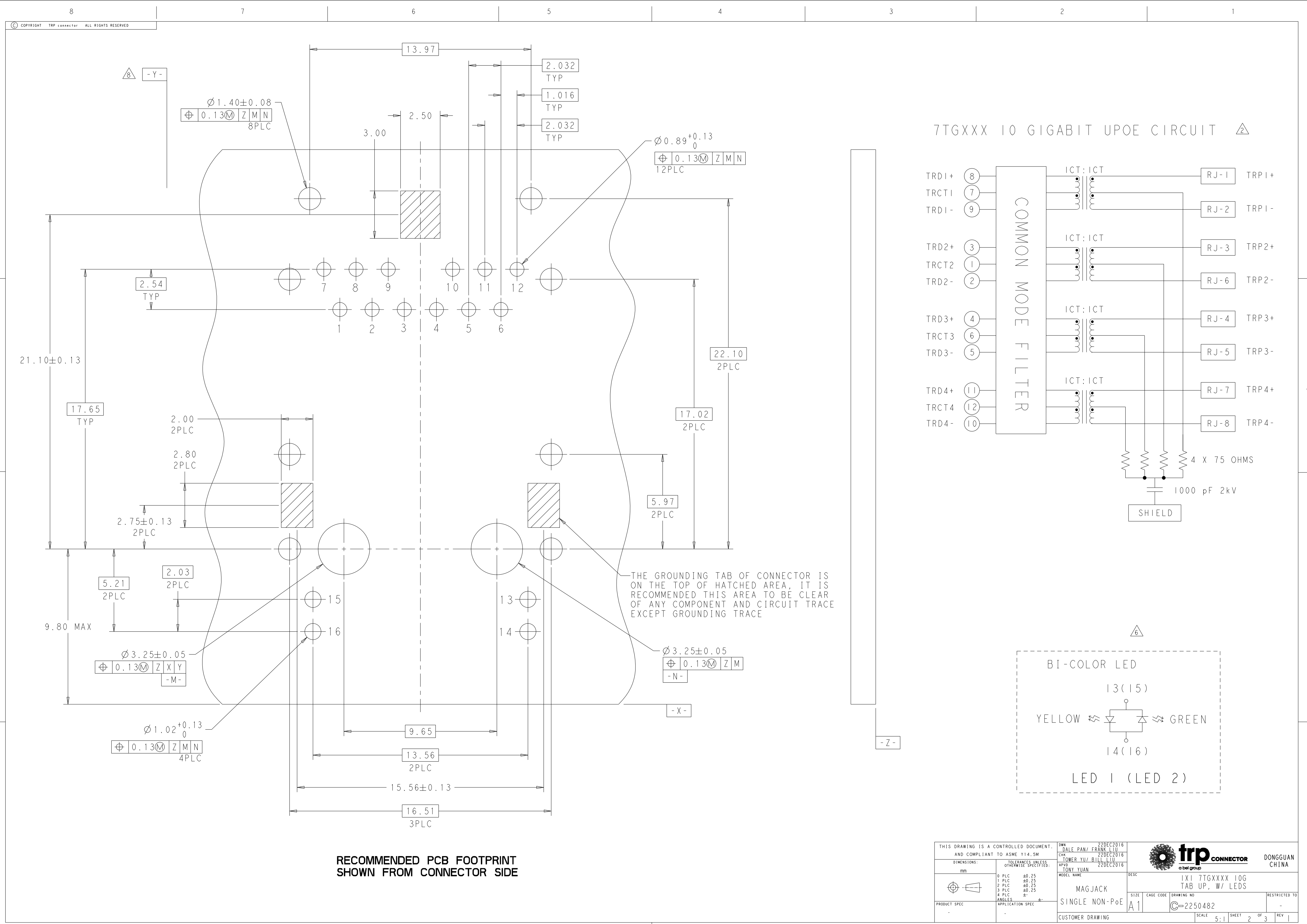
9. PART SHOULD BE RECOMMENDED FOR WAVE SOLDERING PROCESS, PEAK WAVE SOLDERING TEMPERATURE IS 260°C MAX, 10 SECONDS MAX.



SUGGESTED PANEL CUTOUT

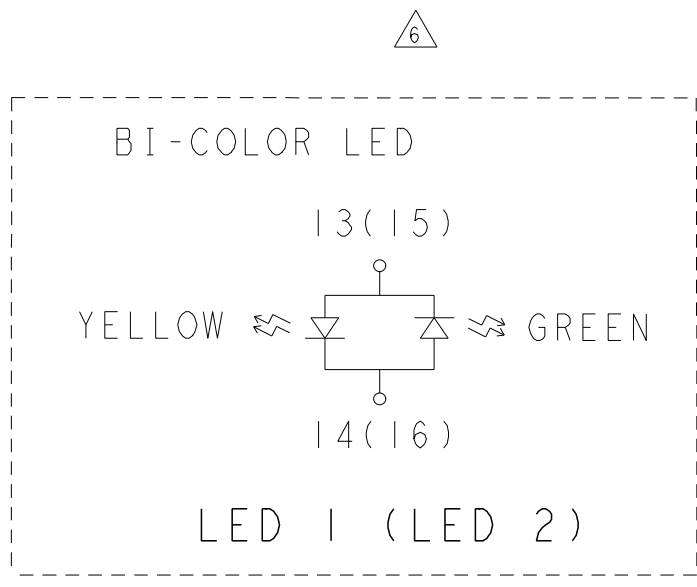
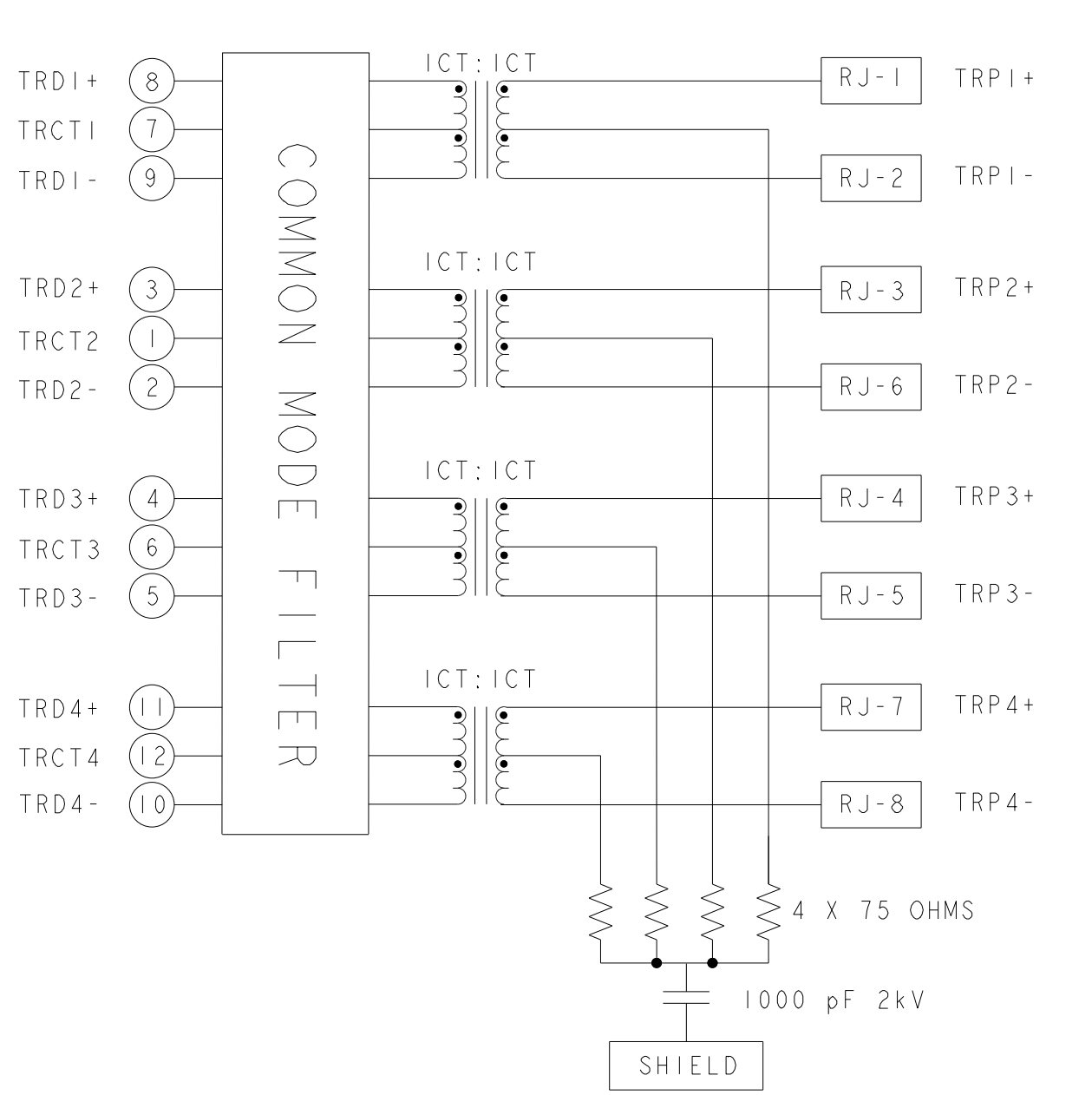
SIDE VIEW, SHOWN WITH CUSTOMER PCB AND PANEL

|                     |  |                                 |             |
|---------------------|--|---------------------------------|-------------|
| GREEN/YELLOW        |  | GREEN/YELLOW                    | 2250482-1   |
| LED 2               |  | LED 1                           | PART NUMBER |
| DALE PAN/ FRANK LIU |  | 22DEC2016                       |             |
| TOWER YU/ BILL LIU  |  | 22DEC2016                       |             |
| TONY YUAN           |  | 22DEC2016                       |             |
| MAGJACK             |  | IX1 7TGXXXX 10G TAB UP, W/ LEDS |             |
| SINGLE NON-PoE      |  | A1                              |             |
| CUSTOMER DRAWING    |  | SCALE 5:1 SHEET 1 OF 3 REV 1    |             |



RECOMMENDED PCB FOOTPRINT  
SHOWN FROM CONNECTOR SIDE

7TGXXX 10 GIGABIT UPOE CIRCUIT



|                                                                                       |  |                                                                                                                            |  |                                                                                                                           |                        |                                           |  |
|---------------------------------------------------------------------------------------|--|----------------------------------------------------------------------------------------------------------------------------|--|---------------------------------------------------------------------------------------------------------------------------|------------------------|-------------------------------------------|--|
| THIS DRAWING IS A CONTROLLED DOCUMENT.<br>AND COMPLIANT TO ASME Y14.5M                |  | OWN DALE PAN/ FRANK LIU 22DEC2016<br>CHK TOWER YU/ BILL LIU 22DEC2016<br>APVD TONY YUAN 22DEC2016                          |  |  <b>trp</b> CONNECTOR<br>a bel group |                        | DONGGUAN CHINA                            |  |
| DIMENSIONS:<br>mm                                                                     |  | TOLERANCES UNLESS OTHERWISE SPECIFIED:<br>0 PLC ±0.25<br>1 PLC ±0.25<br>2 PLC ±0.25<br>3 PLC ±0.25<br>4 PLC ±<br>ANGLES ±° |  | MODEL NAME<br>MAGJACK                                                                                                     |                        | DESC<br>1X1 7TGXXX 10G<br>TAB UP, W/ LEDS |  |
|  |  | APPLICATION SPEC                                                                                                           |  | SIZE<br>A1                                                                                                                | CAGE CODE<br>C=2250482 | RESTRICTED TO<br>-                        |  |
| PRODUCT SPEC                                                                          |  |                                                                                                                            |  | CUSTOMER DRAWING                                                                                                          |                        |                                           |  |
|                                                                                       |  |                                                                                                                            |  | SCALE<br>5:1                                                                                                              | SHEET<br>2 OF 3        | REV<br>1                                  |  |

