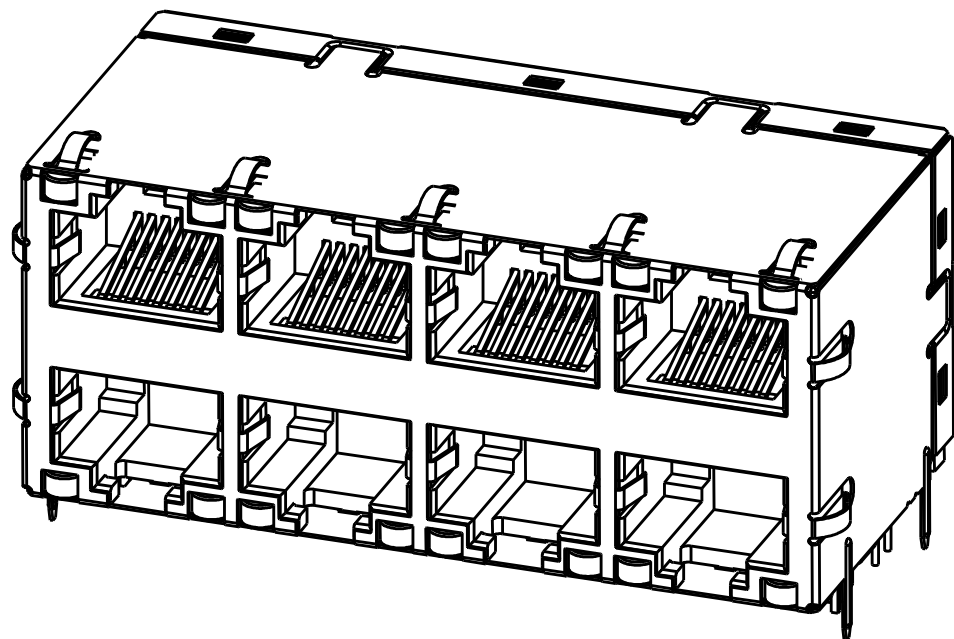
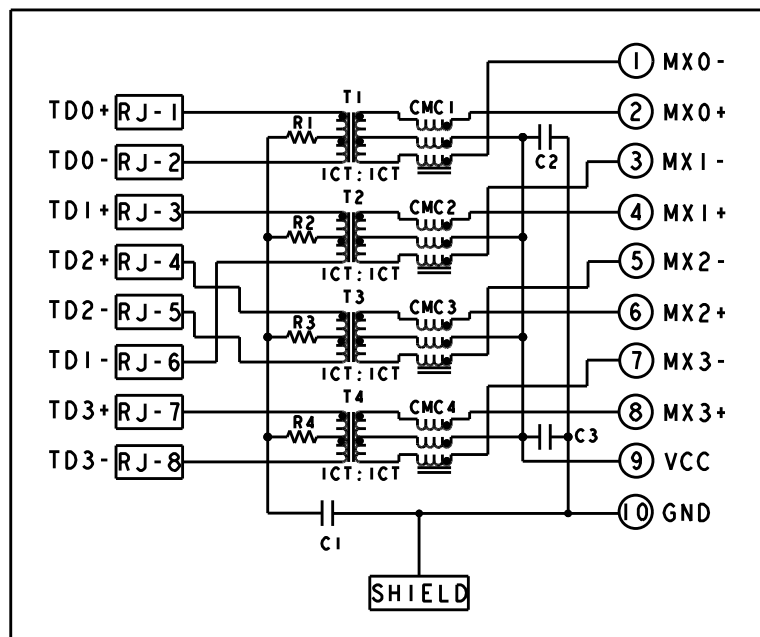




TOP AND BOTTOM PORTS



C1 = 1000pF, 2kV CAPACITOR  
C2 - C3 = 10nF, 50V CCAPACITORS  
R1-R4 = 75 Ohms, 1/16 W, RESISTORS

1. MATERIALS:  
PLASTIC HOUSING: BLACK, THERMOPLASTIC FLAMMABILITY RATING UL 94V-0  
SHIELD: BRASS, PREPLATED WITH 0.76um MIN SEMI-BRIGHT NICKEL,  
POST DIPPED WITH 2.54um MIN SAC SOLDER ON SOLDER TAILS,  
CONTACTS: PHOSPHOR BRONZE, 1.27um MIN OVERALL NICKEL  
UNDERPLATE WITH SELECTED 1.27um MIN GOLD OR WITH SELECT 0.05um  
MIN GOLD OVER 0.76um MIN PALLADIUM-NICKEL AT MATING INTERFACE  
AND 2.54um MIN MATTE TIN ON SOLDER TAILS.  
LED: DIFFUSED EPOXY LENS, CARBON STEEL LEAD FRAME TAILS OF LED  
ARE PREPLATED WITH 2.03um MIN SILVER OVER 1.02um MIN NICKEL  
UNDERPLATE OVER 1.02um MIN COPPER UNDERPLATE. POST-PLATED WITH  
2.54um MIN MATTE TIN AND/OR SAC SOLDER DIP OR PURE TIN SOLDER DIP

- MAGNETICS  
APPLICATION: 10/100/1000 BASE-T  
IMPEDANCE: 100 OHMS  
TURNS RATIO (CHIP:CABLE): 1:1 ALL FOUR PAIRS  
OPEN CIRCUIT INDUCTANCE (OCL): 350uH MIN @100kHz, 0.1VRMS,  
8mADC BIAS FROM 0°C TO 70°C, ALL FOUR PAIRS  
ALL FOUR PAIRS BI-DIRECTIONAL  
PERFORMANCE @ 25°C:  
INSERTION LOSS (IL): 1.1dB MAX FROM 0.5MHz TO 100MHz  
RETURN LOSS (RL): 18dB MIN FROM 0.5MHz TO 40MHz  
12-20LOG(f/80)dB MIN FROM 40.1MHz TO 100MHz  
CROSSTALK ATTENUATION: 35dB MIN FROM 0.5MHz TO 40MHz  
33-20LOG(f/50)dB MIN FROM 40.1MHz TO 100MHz  
COMMON MODE REJECTION RATIO (CMRR): 30dB MIN FROM 0.5MHz TO 100MHz  
ISOLATION VOLTAGE: 2250VDC(MAX) FOR 60 SECONDS WITH A RISE TIME OF  
500V/SEC AND WITH ALL PORTS CONNECTED.

- PART NUMBER, DATE CODE AND COUNTRY OF ORIGIN ARE LOCATED  
IN APPROXIMATE AREA SHOWN. DATE CODE: "YY" IS YEAR, "WW" IS  
WORK WEEK, "D" IS DAY OF WEEK, WITH SUNDAY=1

- TRP LOGO AND AGENCY APPROVAL LOGO ARE  
LOCATED IN APPROXIMATE AREA SHOWN.

5. OPERATING TEMP: FROM 0°C TO +70°C.

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

- INDICATED MAGNETIC CONNECTIONS ARE SYMMETRICAL AND  
SUPPORT AUTO-MDI/MDIX.

- DATUM AND BASIC DIMENSION ESTABLISHED BY CUSTOMER.

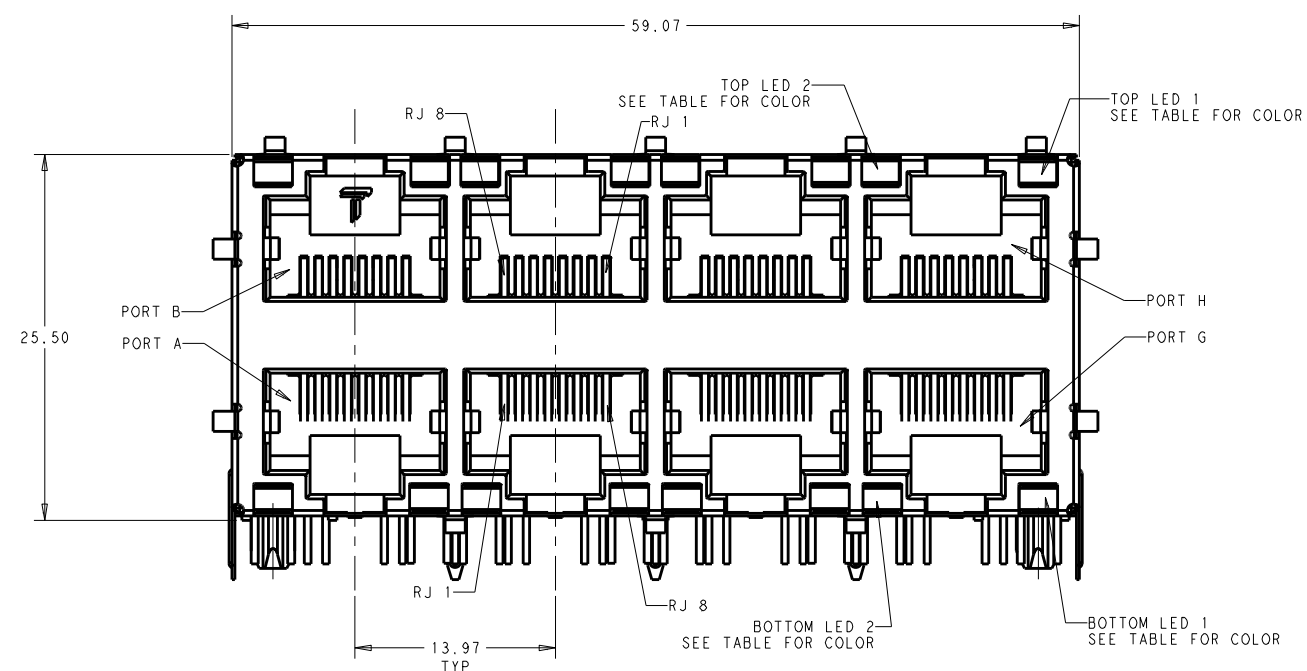
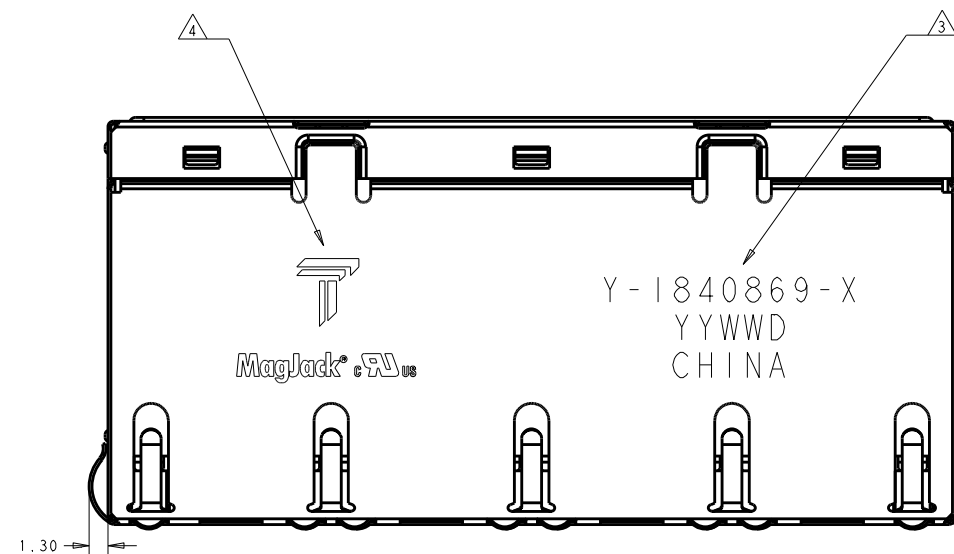
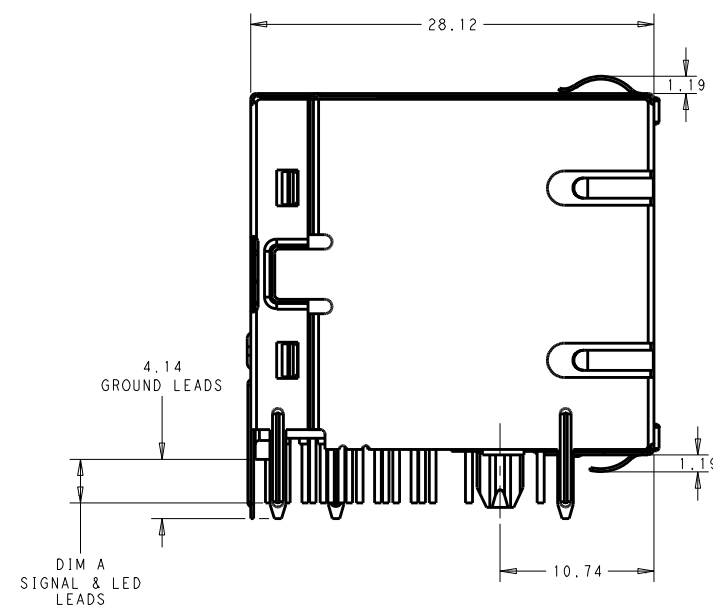
- BASIC DIMENSION ESTABLISHED BY CUSTOMER, BUT MAY NOT BE  
GREATER THAN 5.08mm.

- LEDS ARE 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): ORANGE 605 nm TYP. @ IF=20mA  
FORWARD VOLTAGE (VF): ORANGE 2.1V TYP. @ IF=20mA  
DOMINANT WAVELENGTH (λD): YELLOW 588 nm TYP. @ IF=20mA  
FORWARD VOLTAGE (VF): YELLOW 2.1V TYP. @ IF=20mA

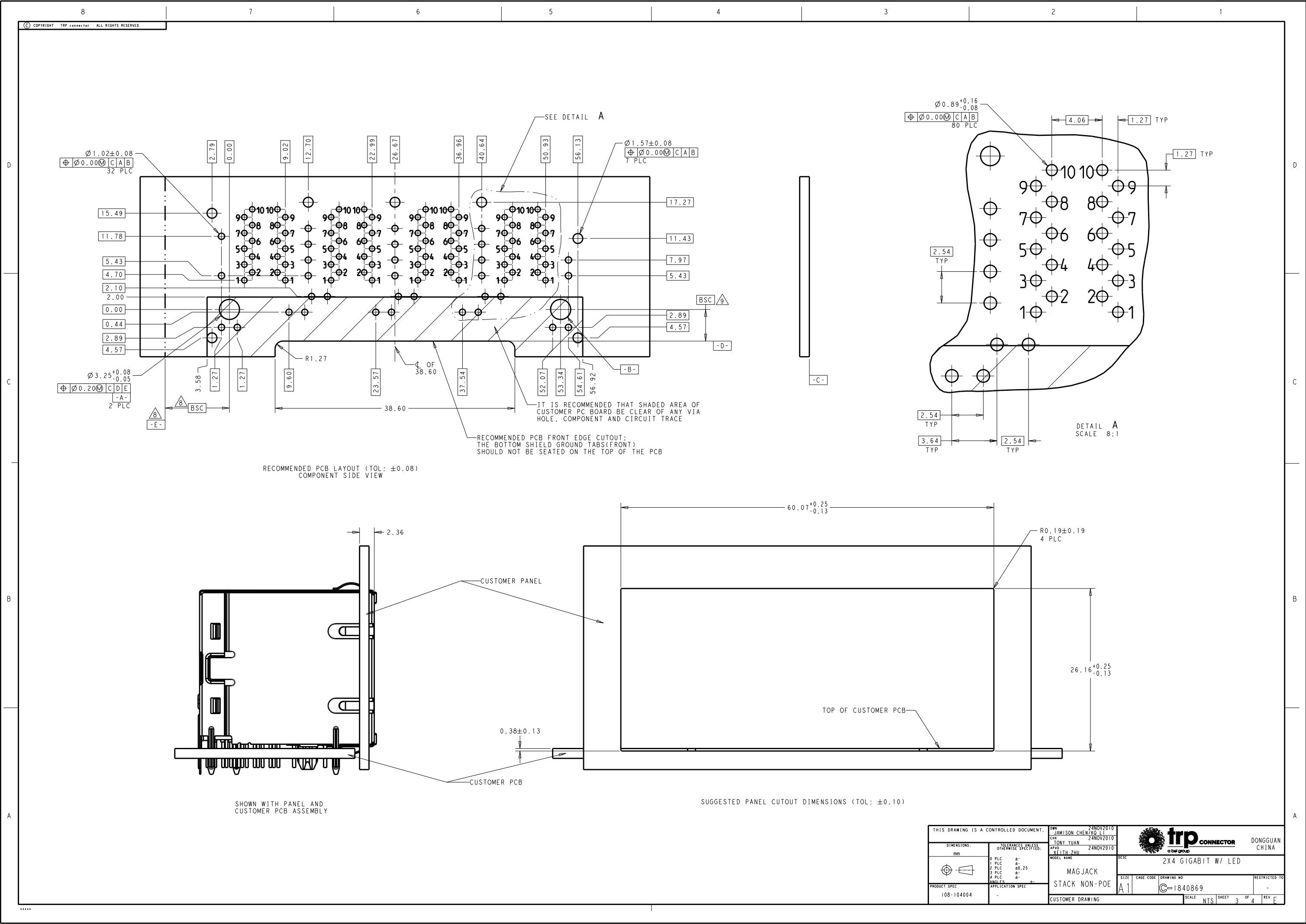
11. THE PARTS ARE RECOMMENDED FOR WAVE SOLDERING PROCESS,  
PEAK TEMPERATURE 260°C MAX, 10 SECONDS MAX.

|       |              |              |           |           |             |
|-------|--------------|--------------|-----------|-----------|-------------|
| 2.50  | GREEN        | GREEN        | GREEN     | GREEN     | 1-1840869-1 |
| 3.04  | GREEN        | GRN/ORA      | GREEN     | GRN/ORA   | 1840869-6   |
| 3.04  | GRN/YEL      | GRN/YEL      | GRN/YEL   | GRN/YEL   | 1840869-4   |
| 3.04  | GREEN        | GREEN        | GREEN     | GREEN     | 1840869-1   |
| DIM A | BOTTOM LED 2 | BOTTOM LED 1 | TOP LED 2 | TOP LED 1 | PART NUMBER |

|                                        |  |                                                                                                               |                                     |                                        |  |
|----------------------------------------|--|---------------------------------------------------------------------------------------------------------------|-------------------------------------|----------------------------------------|--|
| THIS DRAWING IS A CONTROLLED DOCUMENT. |  | OWN JAMISON CHEN/KO L1<br>CHK TONY YUAN<br>APVD KELTH ZHU                                                     | 24NOV2010<br>24NOV2010<br>24NOV2010 | DONGGUAN CHINA                         |  |
| DIMENSIONS:<br>mm                      |  | TOLERANCES UNLESS OTHERWISE SPECIFIED:<br>0 PLC ±<br>1 PLC ±<br>2 PLC ±0.25<br>3 PLC ±<br>4 PLC ±<br>ANGLES ± |                                     | MODEL NAME<br>MAGJACK<br>STACK NON-POE |  |
| PRODUCT SPEC<br>108-104004             |  | APPLICATION SPEC<br>-                                                                                         |                                     | DESC<br>2X4 GIGABIT W/ LED             |  |
| CUSTOMER DRAWING                       |  | SCALE<br>NTS                                                                                                  |                                     | SHEET 1 OF 4<br>REV E                  |  |



|                                                                                       |  |                                                                                                                    |  |                                                                                                                           |  |                           |  |
|---------------------------------------------------------------------------------------|--|--------------------------------------------------------------------------------------------------------------------|--|---------------------------------------------------------------------------------------------------------------------------|--|---------------------------|--|
| THIS DRAWING IS A CONTROLLED DOCUMENT.                                                |  | DWG. 22NOV2010<br>JAMISON CHEN/KO.LI<br>CHK. 24NOV2010<br>TONY YUAN<br>APP'D. 24NOV2010<br>KEITH ZHU<br>MODEL NAME |  |  <b>trp CONNECTOR</b><br>a bel group |  | DONGGUAN CHINA            |  |
| DIMENSIONS:<br>mm                                                                     |  | TOLERANCES UNLESS OTHERWISE SPECIFIED:<br>0 P.L.C ±.<br>2 P.L.C ±0.125<br>4 P.L.C ±.<br>6 P.L.C ±.<br>ANGLES ±.    |  | DESC. 2X4 GIGABIT W/ LED                                                                                                  |  |                           |  |
|  |  | MAGJACK                                                                                                            |  | SIZE CASE CODE DRAWING NO.                                                                                                |  | RESTRICTED TO             |  |
| PRODUCT SPEC 108-104004                                                               |  | APPLICATION SPEC -                                                                                                 |  | A1 C=1840869                                                                                                              |  | -                         |  |
| CUSTOMER DRAWING                                                                      |  |                                                                                                                    |  | SCALE                                                                                                                     |  | NTS SHEET 2 OF 4<br>REV E |  |



RECOMMENDED PCB LAYOUT (TOL: ±0.08)  
COMPONENT SIDE VIEW

IT IS RECOMMENDED THAT SHADED AREA OF CUSTOMER PC BOARD BE CLEAR OF ANY VIA HOLE, COMPONENT AND CIRCUIT TRACE

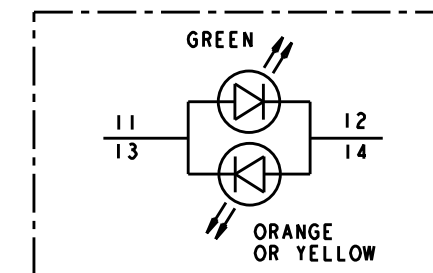
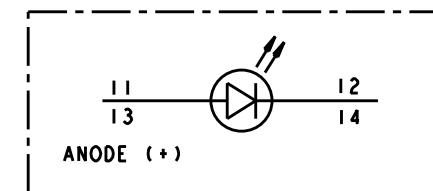
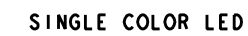
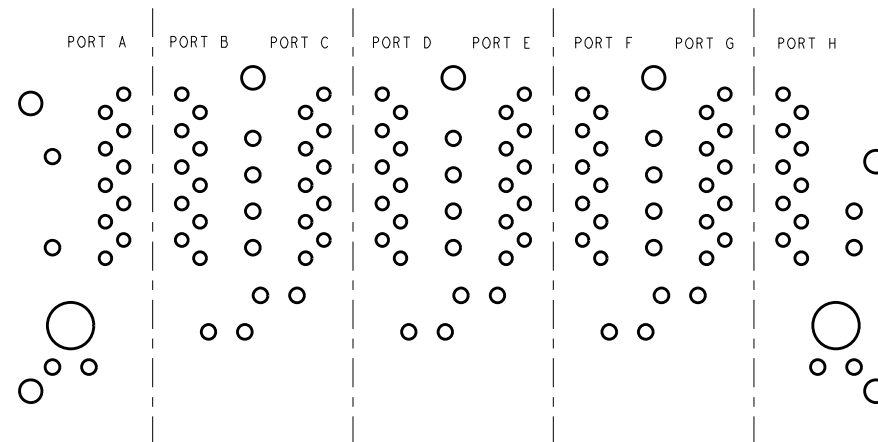
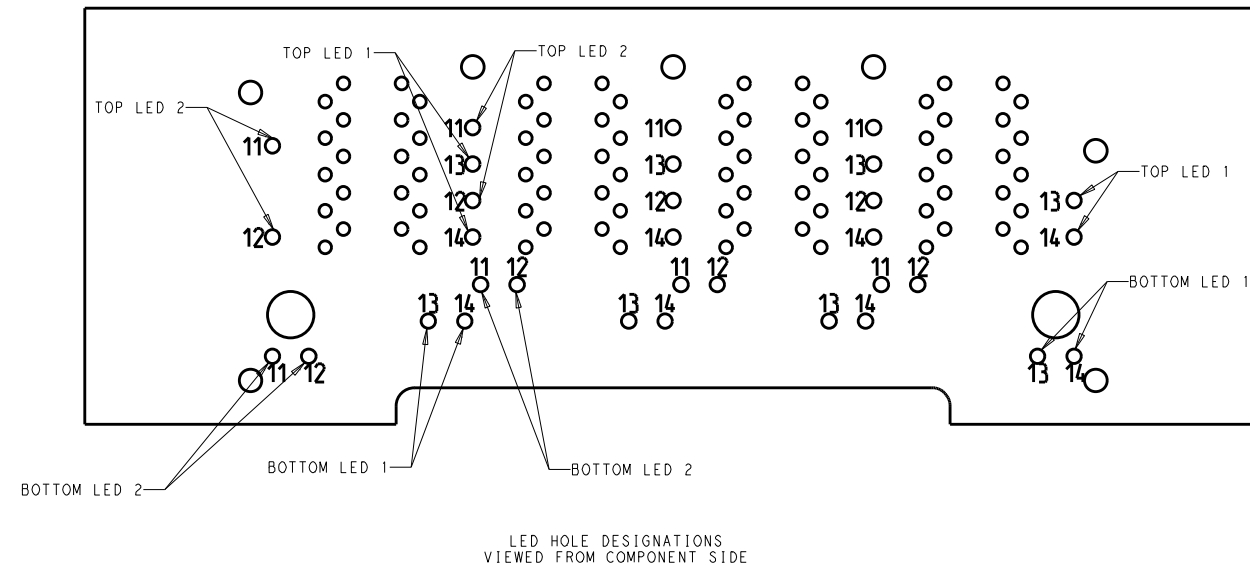
RECOMMENDED PCB FRONT EDGE CUTOUT:  
THE BOTTOM SHIELD GROUND TABS(FRONT) SHOULD NOT BE SEATED ON THE TOP OF THE PCB

SHOWN WITH PANEL AND CUSTOMER PCB ASSEMBLY

SUGGESTED PANEL CUTOUT DIMENSIONS (TOL: ±0.10)

DETAIL A  
SCALE 8:1

|                                                                                       |  |  |  |                                        |  |                                                                                                         |  |
|---------------------------------------------------------------------------------------|--|--|--|----------------------------------------|--|---------------------------------------------------------------------------------------------------------|--|
| THIS DRAWING IS A CONTROLLED DOCUMENT.                                                |  |  |  | DWN 24NOV2010<br>JAMISON CHEN/KO L L   |  | <br>DONGGUAN CHINA |  |
| DIMENSIONS: mm                                                                        |  |  |  | CHK 24NOV2010<br>TONY YUAN             |  |                                                                                                         |  |
| TOLERANCES UNLESS OTHERWISE SPECIFIED:                                                |  |  |  | APVD 24NOV2010<br>KEITH ZHU            |  | DESC 2X4 GIGABIT W/ LED                                                                                 |  |
|  |  |  |  | MODEL NAME<br>MAGJACK<br>STACK NON-POE |  | SIZE A1<br>CAGE CODE<br>DRAWING NO C=1840869<br>RESTRICTED TO -                                         |  |
| PRODUCT SPEC 108-104004                                                               |  |  |  | CUSTOMER DRAWING                       |  | SCALE NTS<br>SHEET 3 of 4<br>REV E                                                                      |  |
| APPLICATION SPEC                                                                      |  |  |  |                                        |  |                                                                                                         |  |
|                                                                                       |  |  |  |                                        |  |                                                                                                         |  |



|                                                                                       |  |                                                                                                            |  |                                                                                                                           |  |                            |  |
|---------------------------------------------------------------------------------------|--|------------------------------------------------------------------------------------------------------------|--|---------------------------------------------------------------------------------------------------------------------------|--|----------------------------|--|
| THIS DRAWING IS A CONTROLLED DOCUMENT.                                                |  | DWG 24NOV2010<br>JAMISON CHEN/TRO (L)<br>CHK 24NOV2010<br>PNY YUAN<br>APPV 24NOV2010<br>ALTH ZHU           |  |  <b>trp</b> CONNECTOR<br>a bel group |  | DONGGUAN CHINA             |  |
| DIMENSIONS:<br>mm                                                                     |  | TOLERANCES UNLESS OTHERWISE SPECIFIED:<br>0 P L C ±<br>2 P L C ±0.25<br>3 P L C ±<br>4 P L C ±<br>ANGLES ± |  | MODEL NAME: 2X4 GIGABIT W/ LED                                                                                            |  | DESC                       |  |
|  |  | MAGJACK                                                                                                    |  | SIZE CAGE CODE DRAWING NO<br>A1 C=1840869                                                                                 |  | RESTRICTED TO              |  |
| PRODUCT SPEC<br>108-104004                                                            |  | APPLICATION SPEC<br>-                                                                                      |  | CUSTOMER DRAWING                                                                                                          |  | SCALE NTC SHEET OF A REV E |  |