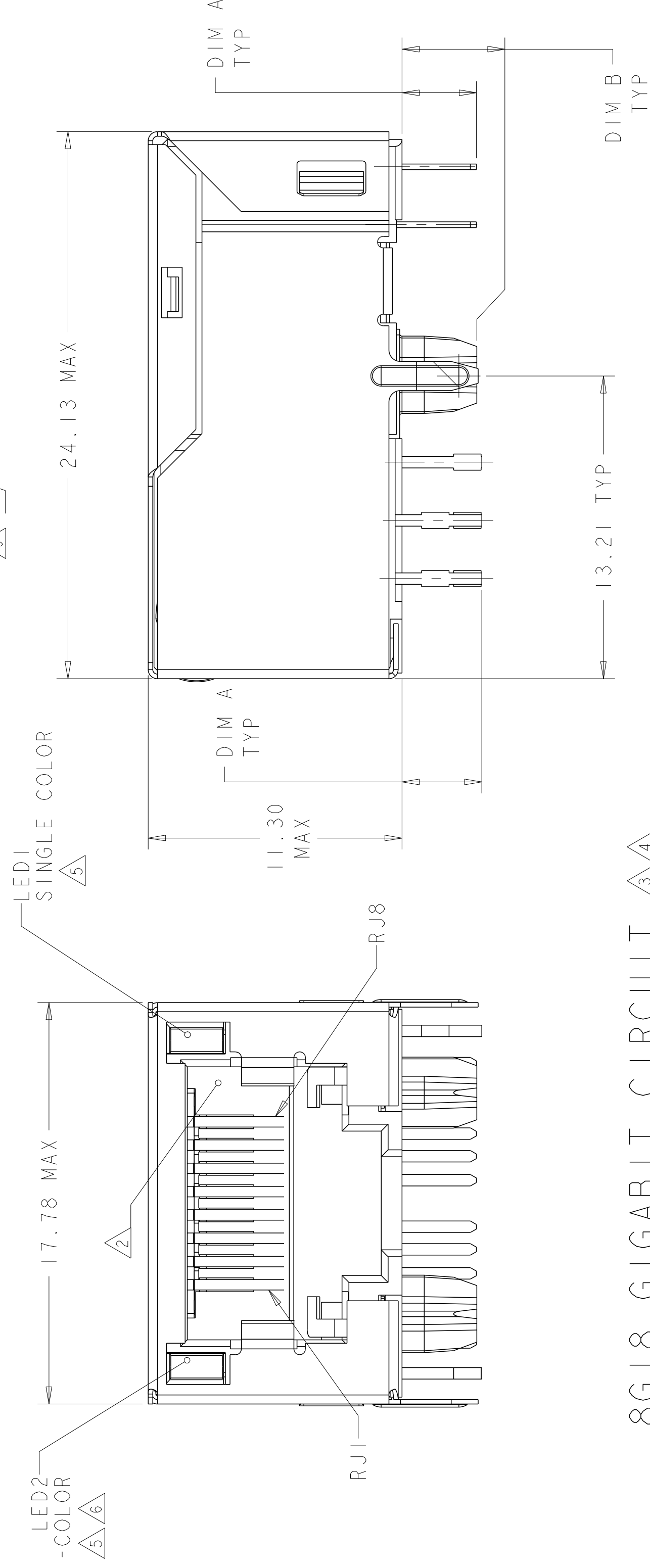
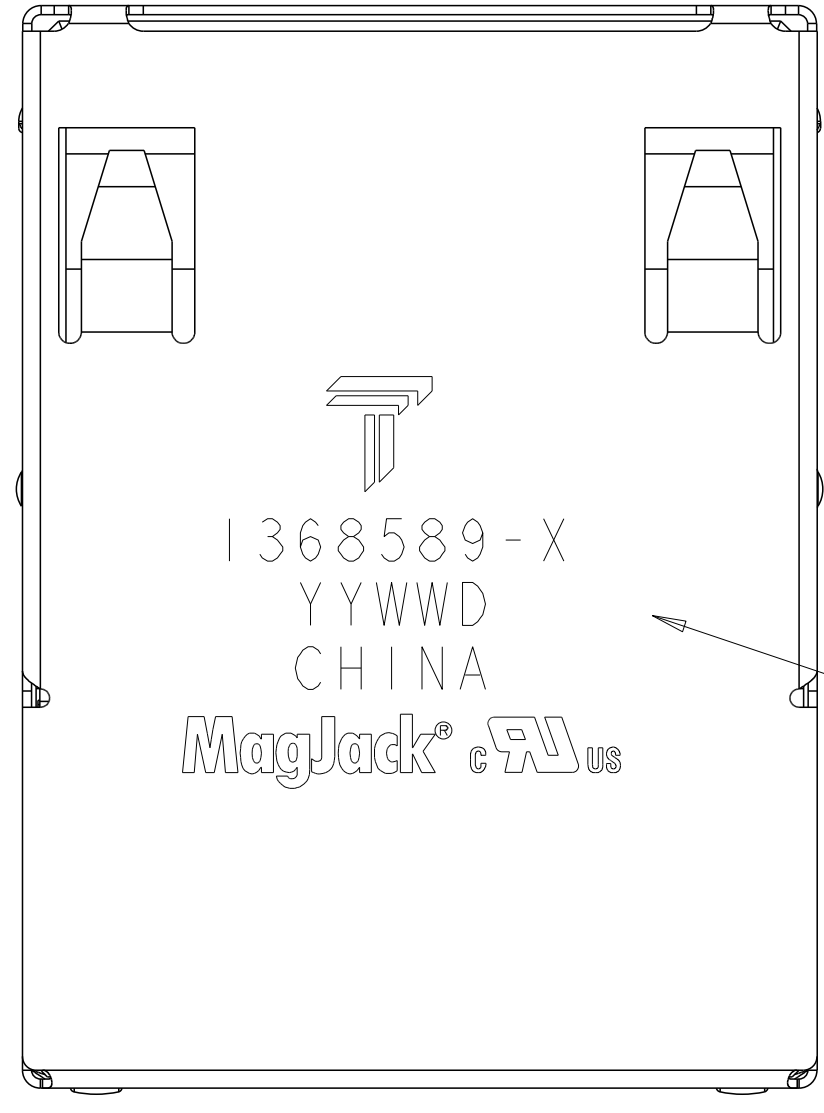
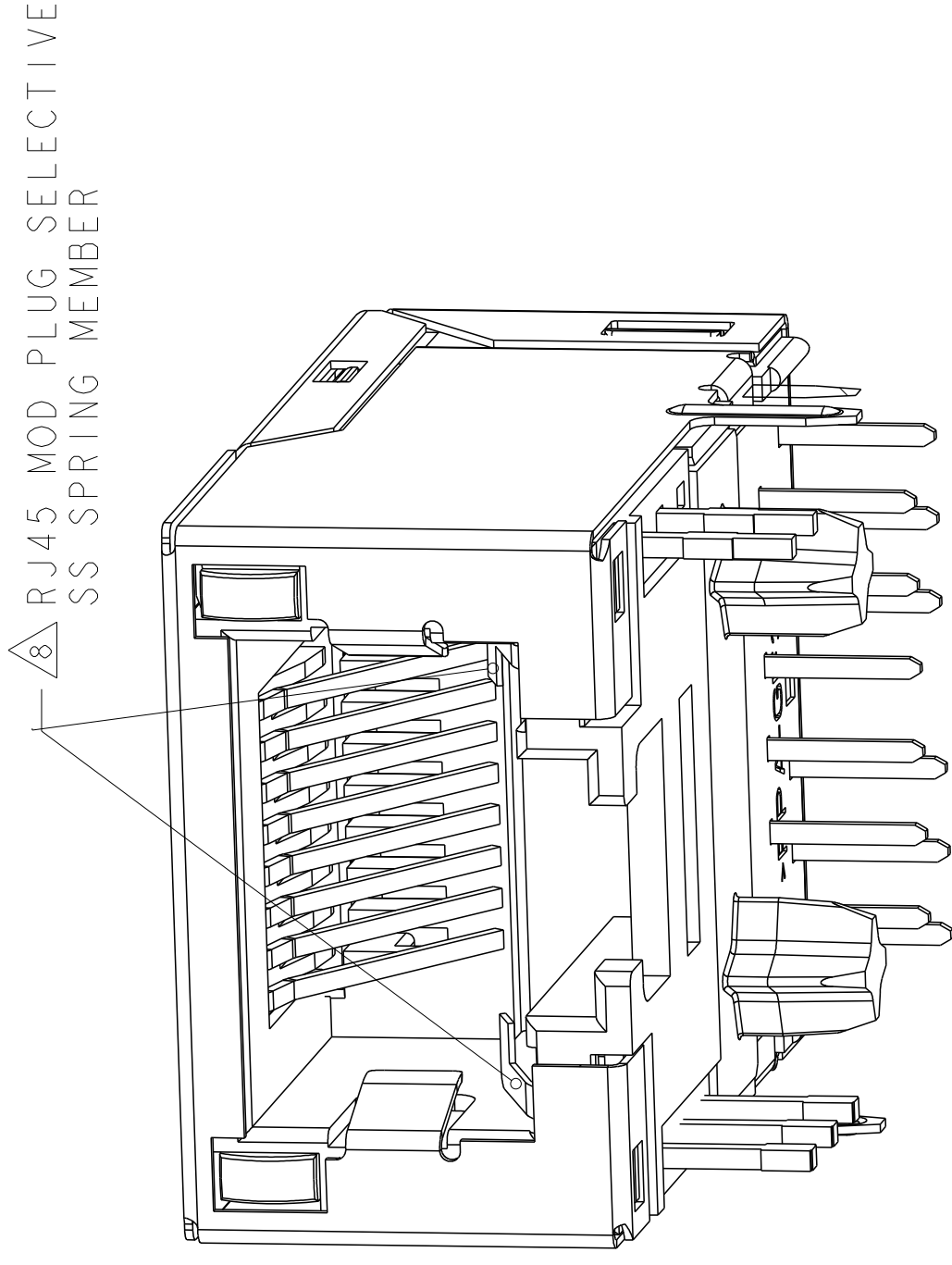


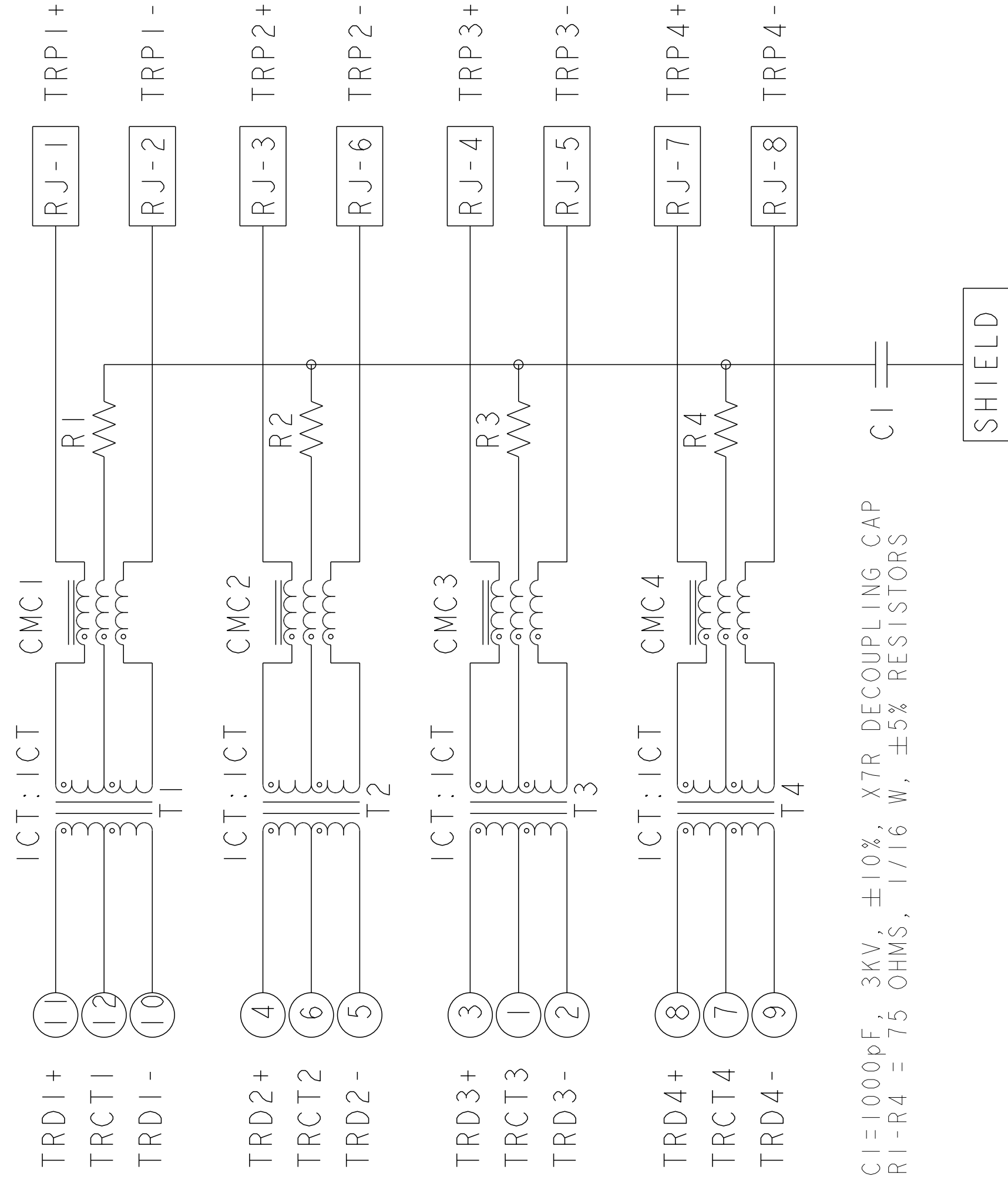
THIS DRAWING AND THE SUBJECT MATTER SHOWN THEREON ARE CONFIDENTIAL AND THE PROPERTY OF BEL/STEWART/TRP CONNECTOR AND SHALL NOT BE REPRODUCED, COPIED, OR USED IN ANY MANNER WITHOUT THE WRITTEN CONSENT OF TRP CONNECTOR.

PRODUCT MAY BE PROTECTED BY ONE OR MORE OF THE FOLLOWING US PATENTS:
 5736910 5939955 6425781 6429361 6554638 6840817 7123117
 7429195 7717749 7808751 6217391 6149050 7924130

| REVISONS | | DATE | BY | APPD |
|----------|------------------------------------|-----------|-----|------|
| F | LM | | | |
| G | EC-1309003 | 11SEP2013 | TY | TY |
| H | COMPANY LOGO CHANGE AND EC-1409035 | 06MAR2015 | TYR | TYN |



8G18 GIGABIT CIRCUI T



C1=1000pF, 3KV, ±10%, XTR DECOUPLING CAP
 R1-R4 = 75 OHMS, 1/16 W, ±5% RESISTORS

1. MATERIALS:
 - HOUSING: HIGH TEMPERATURE NYLON, BLACK, UL 94V-0
 - SHIELD: 0.20±0.02mm THICK, BRASS PREPLATED WITH 0.76um MIN SEMI-BRIGHT NICKEL; POST-DIPPED WITH 2 um MIN LEAD FREE TIN SOLDER
 - CONTACT TAILS: 0.25mm THICK, PHOSPHOR BRONZE, 1.27 um MIN OVERALL NICKEL UNDERPLATE, 3 um MIN TIN PLATE
 - MOD JACK CONTACTS: 0.25mm THICK, PHOSPHOR BRONZE, 1.27 um MIN OVERALL NICKEL UNDERPLATE, WITH 0.76um MIN LOCALIZED GOLD PLATE AT PLUG INTERFACE
 - LIGHT EMITTING DIODE (LED): DIFFUSED EPOXY LENS, CARBON STEEL WIREFRAME PREPLATED WITH 2.03um SILVER PLATE OVER 1.02um NICKEL OVER 1.02um COPPER UNDERPLATES, LEADS POST-PLATED WITH 3.05 um Min TIN, TIP TIN DIPPING
 - LIGHT PIPE: POLYETHER SULFONE
2. RJ45 JACK CAVITY CONFORMS TO FCC RULES AND REGULATIONS PART 68, SUB-PART F.
3. MAGNETICS:
 - APPLICATION: 10/100/1000 BASE-T
 - IMPEDANCE: 100 OHMS ±15%
 - TURNS RATIO (CHIP: CABLE): 1:1 ALL 4 PAIRS
 - OPEN CIRCUIT INDUCTANCE (OCL): 350uH (MIN) @100KHz, 0.1 VRMS
 - 8 mA DC BIAS FROM 0°C TO 70°C, ALL FOUR PAIRS.
 - ALL FOUR PAIRS BI-DIRECTIONAL
 - PERFORMANCE @25°C:

| FREQUENCY | INSERTION LOSS (dB MAX) | RETURN LOSS (dB MIN) CIRCUIT IMPEDANCE = 100 OHMS ±15% | COMMON MODE REJECTION RATIO (dB MIN) | CROSSTALK ATTENUATION (dB MIN) |
|--------------------|-------------------------|--|--------------------------------------|--|
| 0.5 MHz-40.0 MHz | 1.1 | 18.0 | 30 | 35 |
| 40.1 MHz-100.0 MHz | | 12-20 log(f/80) f IS FREQUENCY IN MHZ | | 33-20 log(f/50) f IS FREQUENCY IN MHZ |

- ISOLATION VOLTAGE: COMPLIES WITH IEEE802.3.2002, PARA 40.6.1.1, ITEM a AND b

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

5. LED IS DRIVEN WITH CONSTANT CURRENT AT APPROX 20mA.

LED COLOR: DOMINANT WAVELENGTH (λD): GREEN 568 nm TYP. at IF=20mA
 FORWARD VOLTAGE (VF): GREEN 2.2V TYP. at IF=20mA
 DOMINANT WAVELENGTH (λD): YELLOW 588 nm TYP. at IF=20mA
 FORWARD VOLTAGE (VF): YELLOW 2.1V TYP. at IF=20mA
 DOMINANT WAVELENGTH (λD): ORANGE 605 nm TYP. at IF=20mA
 FORWARD VOLTAGE (VF): ORANGE 2.1V TYP. at IF=20mA

6. LED 2 WILL EMULATE "YELLOW" LIGHT WHEN BOTH GREEN AND ORANGE DIODES ARE DRIVEN AT CONSTANT CURRENT (20 mA RECOMMENDED) TO INDICATE THE THIRD COLOR STATE.

7. ALL DIMENSIONS ARE NOMINAL UNLESS OTHERWISE NOTED.

8. RJ45 MOD PLUG SELECTIVE - THIS CONNECTOR UTILIZES STEEL SPRING MEMBER WHICH PREVENTS THE INSERTION OF A RJ11 (6 POSITION) PLUG INTO THE JACK PORT, WHILE ALLOWING A RJ45 (8 POSITION) PLUG TO MATE FREELY.
 WARNING: THIS FEATURE WAS DEVELOPED FOR TYPICAL PLUG INSERTION FORCES. EXCESSIVE INSERTION FORCE MAY OVERCOME THE SELECTIVE FEATURES AND DAMAGE THE CONNECTOR.

9. TRP CONNECTOR LOGO, DATE CODE, COUNTRY OF ORIGIN, AND AGENCY APPROVAL MARKING IN APPROXIMATE LOCATION SHOWN

10. 1368589-1, 1368589-3 & 1368589-9 SHOWN UNLESS OTHERWISE NOTED.

11. PART SHOULD BE COMPLIANT WITH BOTH WAVE SOLDERING PROCESS PEAK SOLDERING TEMPERATURE 260°C MAX, 10 SECONDS MAX; AND IR REFLOW SOLDERING PROCESS PEAK SOLDERING TEMPERATURE 260°C MAX DURATION TIME 10 SECONDS MAX, OVER 230°C WITHIN 40- 60 SECONDS.

12. PART SHOULD BE COMPLIANT WITH WAVE SOLDERING PROCESS ONLY, PREHEAT TEMPERATURE IS 120°C TO 160°C, 120 SECONDS TO 180 SECONDS, PEAK SOLDERING TEMPERATURE 260°C MAX, 10 SECONDS MAX;

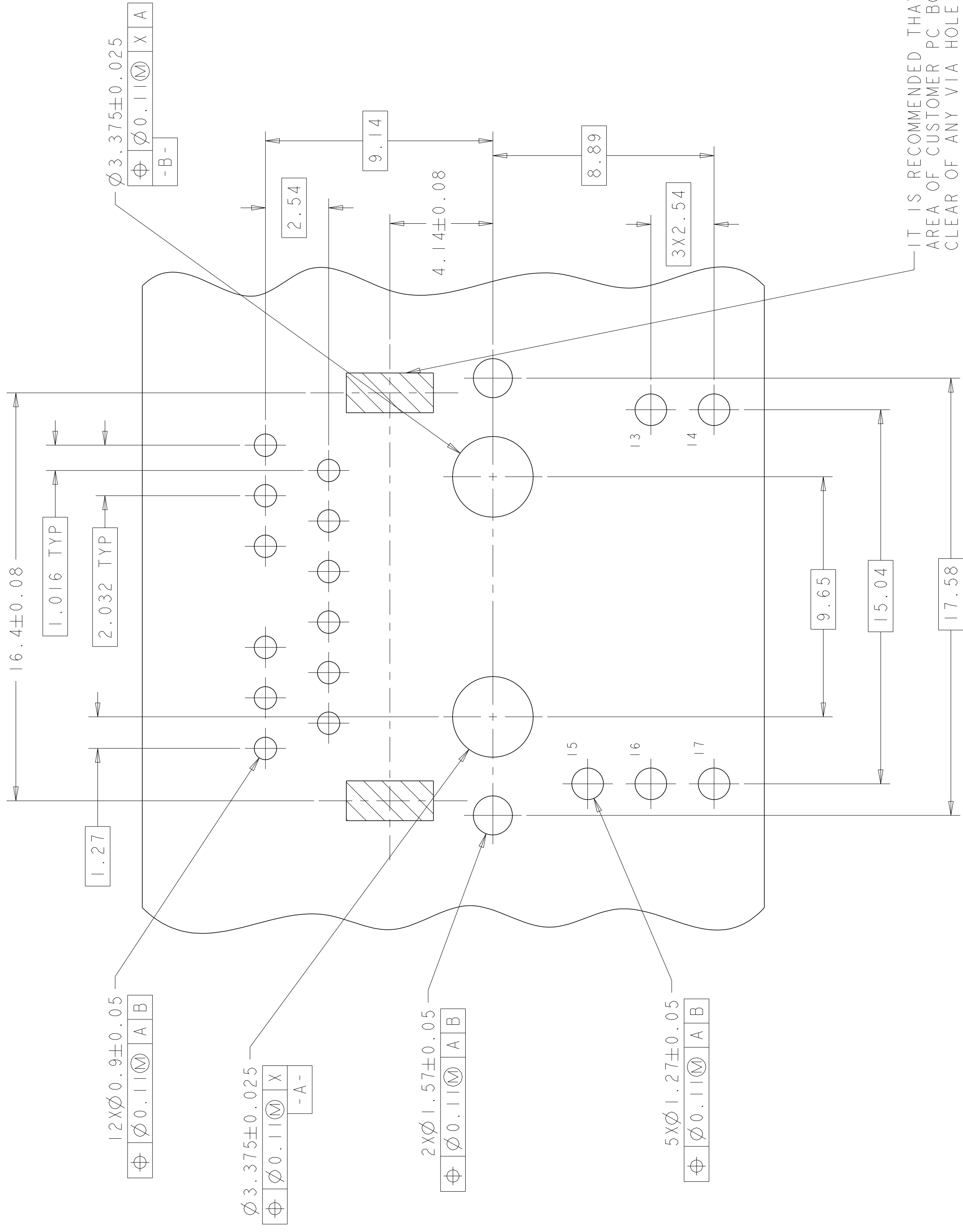
| TRAY | WAVE | NO | G / YELLOW | GREEN | 3-3 | 3-18 | 1368589-9 |
|-------------------------------|-------------|---------------|------------|--------|-------|----------|-----------|
| TRAY | WAVE | TOP AND SIDES | G /ORANGE | YELLOW | 3-3 | 3-18 | 1368589-8 |
| TAPE AND REEL | BOTH | TOP AND SIDES | G /ORANGE | YELLOW | 1-8 | 1-8 | 1368589-7 |
| TRAY | WAVE | TOP ONLY | G /ORANGE | YELLOW | 1-8 | 1-8 | 1368589-6 |
| TRAY | WAVE | TOP AND SIDES | G /ORANGE | GREEN | 3-3 | 3-18 | 1368589-5 |
| TRAY | WAVE | NO | G /ORANGE | GREEN | 1-8 | 1-8 | 1368589-4 |
| TRAY | WAVE | NO | G /ORANGE | GREEN | 3-3 | 3-18 | 1368589-3 |
| TAPE AND REEL | BOTH | NO | G /ORANGE | YELLOW | 1-8 | 1-8 | 1368589-2 |
| TRAY | WAVE | NO | G /ORANGE | YELLOW | 3-3 | 3-18 | 1368589-1 |
| PACKAGE SOLDER PROCESS METHOD | GROUND TABS | LED 2 | LED 1 | DIM B | DIM A | PART NO. | |

THIS DRAWING IS A CONTROLLED DOCUMENT.

DATE: 27 JUL 2005
 BY: CHEN YU
 APPROVED: XIONG
 MODEL NAME: MAGJACK

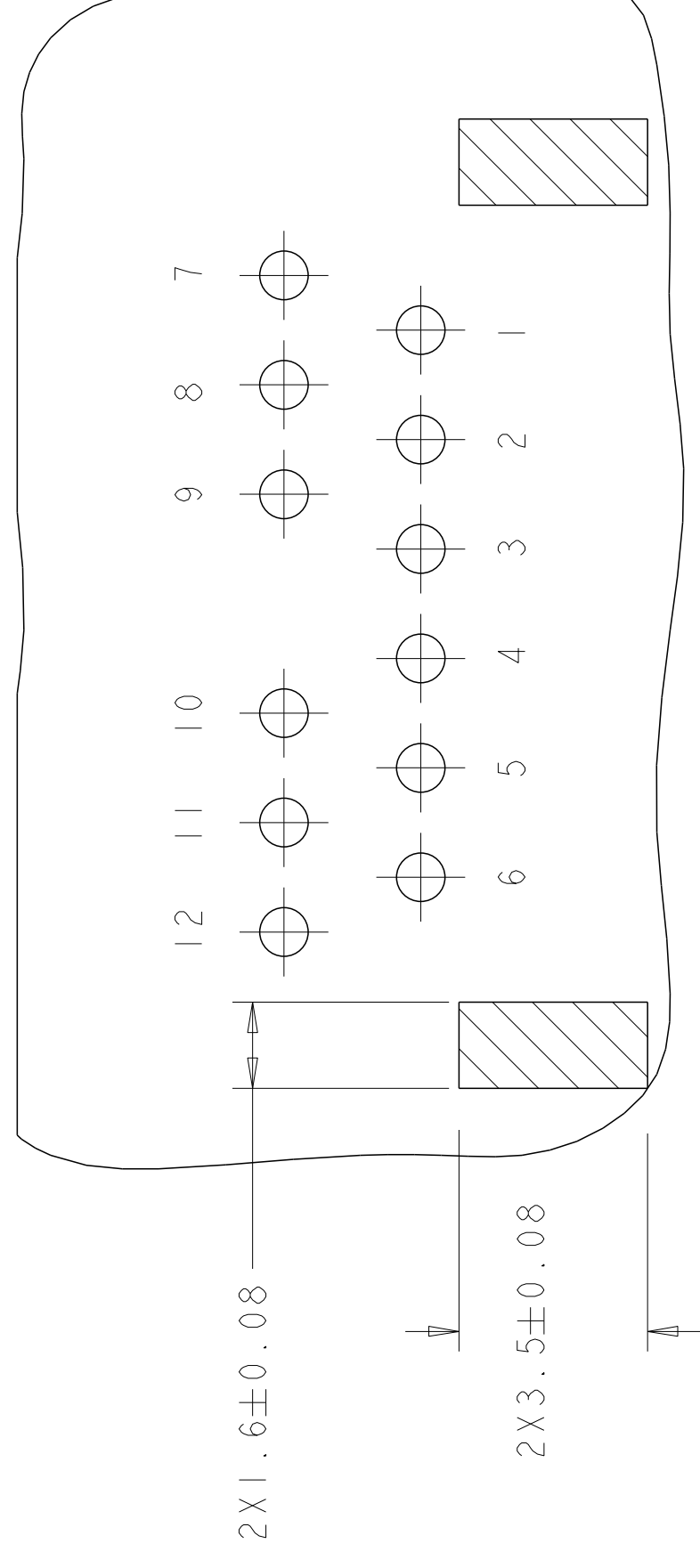
TRP CONNECTOR
 DONGGUAN CHINA

SIZE: TAB DOWN LOW PROFILE W/ LED
 DRAWING NO: 1368589
 SCALE: 6:1 SHEET 1 OF 2

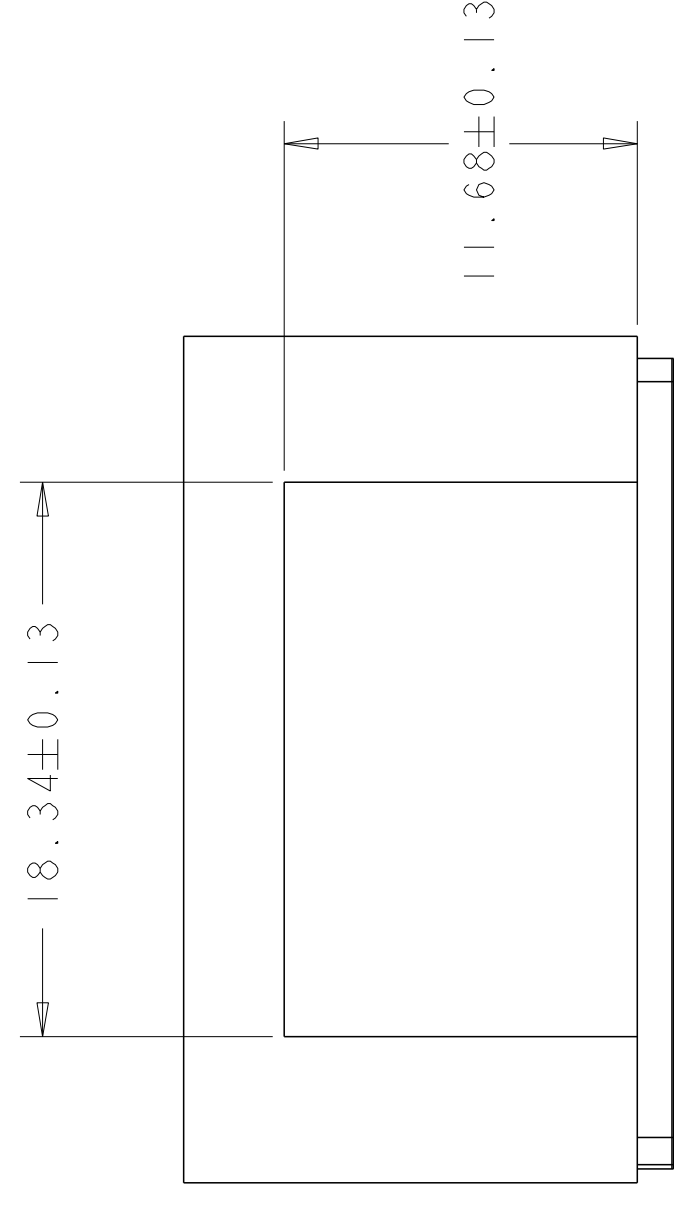


SUGGESTED PCB LAYOUT
(COMPONENT SIDE)

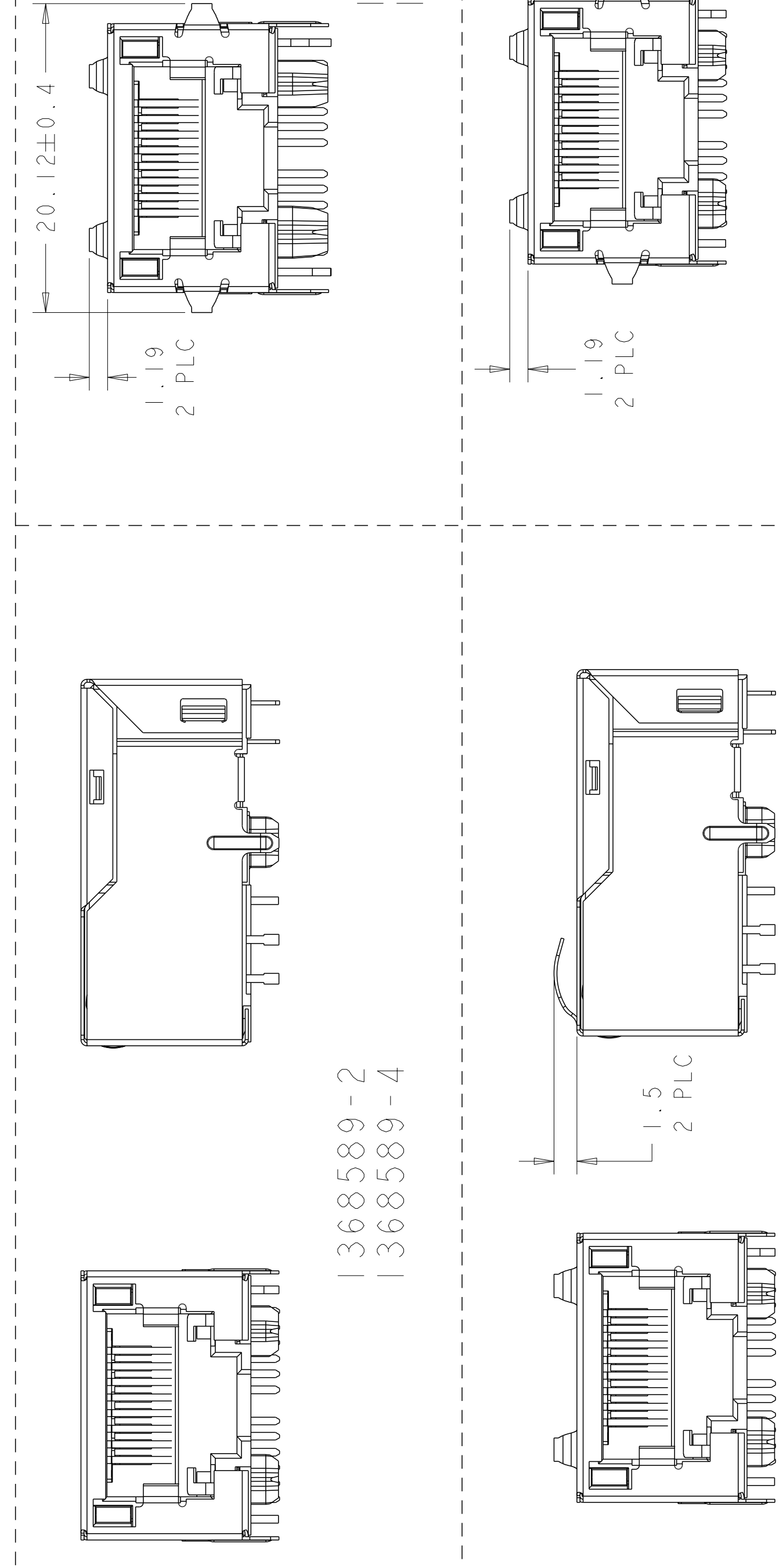
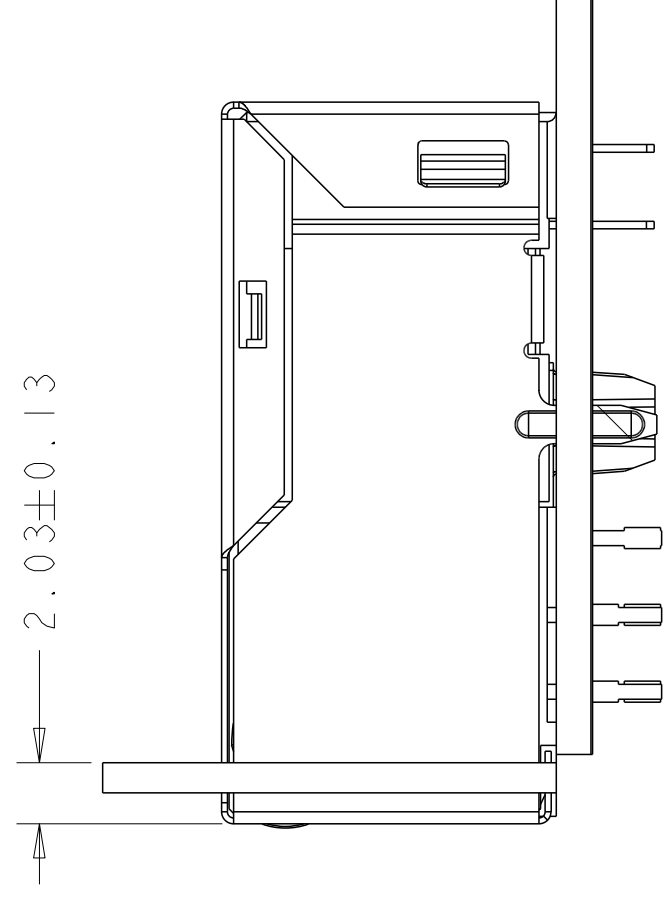
IT IS RECOMMENDED THAT SHADED
AREA OF CUSTOMER PC BOARD BE
CLEAR OF ANY VIA HOLE,
COMPONENT AND CIRCUIT TRACE



PIN DESIGNATIONS



SUGGESTED PANEL OPENING



1368589-2
1368589-4

1368589-5
1368589-8

1368589-6

1368589-7

| | | | |
|--|-------------------|-------------------|--------|
| THIS DRAWING IS A CONTROLLED DOCUMENT. | | DATE: 27 JUL 2005 | REV: 2 |
| OWNER: YU | DATE: 27 JUL 2005 | REV: 2 | REV: H |
| DESIGNER: X LONG | DATE: 27 JUL 2005 | REV: 2 | REV: H |
| APPROVER: X LONG | DATE: 27 JUL 2005 | REV: 2 | REV: H |
| MODEL NAME: MAGJACK | REV: 2 | REV: 2 | REV: H |
| SIZE: CASE CODE: DRAWING NO: A1 | REV: 2 | REV: 2 | REV: H |
| PRODUCT SPEC: 108-2207 | REV: 2 | REV: 2 | REV: H |
| APPLICATION SPEC: 114- | REV: 2 | REV: 2 | REV: H |
| TOLERANCES UNLESS OTHERWISE SPECIFIED: | | | |
| 0 PLC | ±0.25 | REV: 2 | REV: H |
| 1 PLC | ±0.25 | REV: 2 | REV: H |
| 2 PLC | ±0.25 | REV: 2 | REV: H |
| 3 PLC | ±0.25 | REV: 2 | REV: H |
| 4 PLC | ±0.25 | REV: 2 | REV: H |
| 5 PLC | ±0.25 | REV: 2 | REV: H |
| 6 PLC | ±0.25 | REV: 2 | REV: H |
| DIMENSIONS: mm | | | |
| EQUIVALENTS: | | | |
| PRODUCT SPEC: 108-2207 | | | |
| APPLICATION SPEC: 114- | | | |
| DRAWING NO: 108-2207 | | REV: 2 | REV: H |
| SCALE: 7:2 | | REV: 2 | REV: H |
| SHEET: 2 | | REV: 2 | REV: H |
| CUSTOMER DRAWING | | REV: 2 | REV: H |
| TRP CONNECTOR | | REV: 2 | REV: H |
| DONGGUAN CHINA | | REV: 2 | REV: H |
| IXI 8G18 GIGABIT | | REV: 2 | REV: H |
| TAB DOWN LOW PROFILE W/ LED | | REV: 2 | REV: H |
| RESTRICTED TO | | REV: 2 | REV: H |