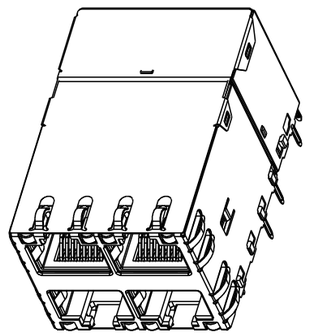
THIS DRAWING AND THE SUBJECT MATTER SHOWN THEREON ARE CONFIDENTIAL AND THE PROPERTY OF BEL/STEWART/TRP CONNECTOR AND SHALL NOT BE REPRODUCED, COPIED, OR USED IN ANY MANNER WITHOUT THE WRITTEN CONSENT OF TRP CONNECTOR.

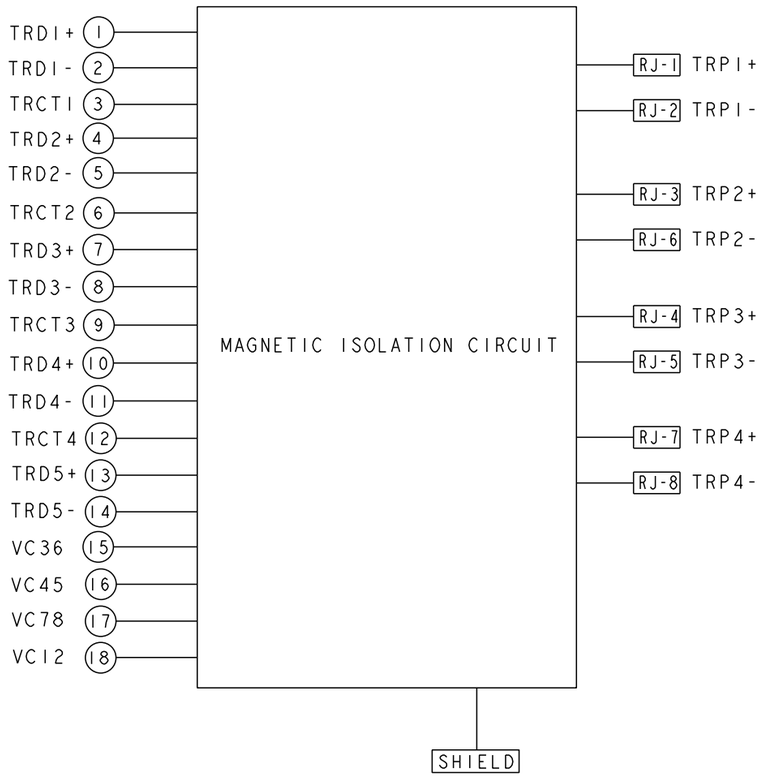
PRODUCT MAY BE PROTECTED BY ONE OR MORE OF THE FOLLOWING US PATENTS:
5736910 5939955 6425781 6428361 6554638 6840817 7123117
7429195 7717749 7808751 6217391 6149050 7924130

REVISIONS

| P | LTR | DESCRIPTION | DATE | DWN | APVD |
|---|---|---|---|---|---|
| | 11 | ADD NEW PART NUMBER 1-2250153-0 | 05JAN2016 | TR | TY |



## 10G 4PPOE BASE-T S9HTG03 CIRCUIT 2 3




1. MATERIALS
   HOUSING: THERMOPLASTIC, BLACK, FLAMMABILITY RATING UL 94V-0
   SHIELD: COPPER BASE ALLOY,PREPLATED WITH MIN 0.76um SEMI-BRIGHT NICKEL,
   OR 0.20mm THICK STAINLESS STEEL
   CONTACT: PHOSPHOR BRONZE,WITH 1.27um MIN OVERALL NICKEL UNDERPLATE AND
   SELECTIVE 1.27um MIN GOLD PLATING AT MATING INTERFACE
   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

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.
     120uH MIN @100kHz, 0.1VRMS,19mA DC BIAS FROM 0°C TO 70°C, ALL FOUR PAIRS
   - ALL FOUR PAIRS BI-DIRECTIONAL
   - PoE CURRENT: 600mADC
   - PERFORMANCE @ 25°C (WHERE f IS FREQUENCY IN MHz):
     (a) RL (MAX)
     1 MHz - 100 MHz -20 dB
     100 MHz - 400 MHz -18 + 8lg (f/100)
     400 MHz - 600MHz -13 + 30lg (f/400)
     600 MHz - 800MHz -8 + 60lg (f/600)
     (b) IL (MIN)
     1MHz - 400MHz -0.5-1.3*(f-1)/400
   - ISOLATION VOLTAGE: 2250VDC(MAX) FOR 60 SECONDS WITH A RISE TIME OF 500V/SEC, WITH ALL PORTS CONNECTED.

3. THE MAGNETIC CIRCUIT ON ALL FOUR CHANNELS IS SYMMETRICAL AND SUPPORTS AUTO-MDIX OPERATION.

4. OPERATING TEMPERATURE: 0°C - 70°C.

5. DATUM Y AND BASIC DIMENSION ESTABLISHED BY CUSTOMER.

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

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

8. PANEL SEATING LOCATION WITH RESPECT TO CUSTOMER PCB EDGE.

9. 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

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

| | | | | | | |
|---|---|---|---|---|---|---|
| LABEL | 3.56 | GREEN/ORANGE | GREEN/ORANGE | GREEN/ORANGE | GREEN/ORANGE | 1-2250153-0 |
| LASER ENGRAVING | 3.56 | GREEN/ORANGE | GREEN/ORANGE | GREEN/ORANGE | GREEN/ORANGE | 2250153-7 |
| PRINTING MODE | DIM A | BOTTOM LED NO 2 | BOTTOM LED NO 1 | TOP LED NO 2 | TOP LED NO 1 | PART NUMBER |

THIS DRAWING IS A CONTROLLED DOCUMENT. AND COMPLIANT TO ASME Y14.5M

DIMENSIONS: mm

TOLERANCES UNLESS OTHERWISE SPECIFIED:
0 PLC ±0.25
1 PLC ±0.25
2 PLC ±0.25
3 PLC ±-
4 PLC ±-
ANGLES ±-

PRODUCT SPEC -

APPLICATION SPEC -

DWN 03MAR2014 GABRIEL.ZHOU
CHK 03MAR2014 TOMMY.REN;BILL.LIU
APVD 03MAR2014 TONY YUAN

trp CONNECTOR a bel group DONGGUAN CHINA

MODEL NAME: MAGJACK STACK 4PPoE

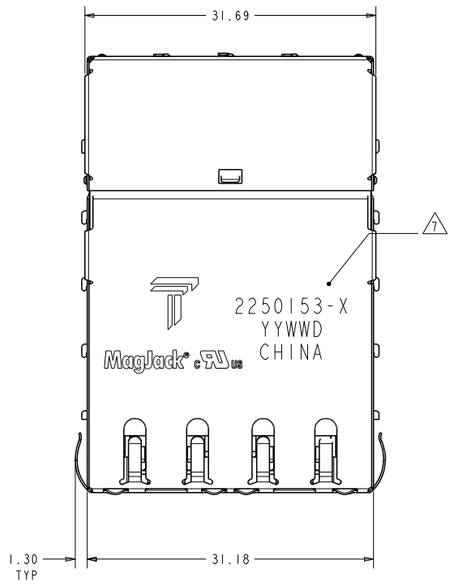
DESC: 2X2, 10G S9HTG03 4PPoE CIRCUIT, W/ LED

SIZE A1 | CAGE CODE | DRAWING NO C-2250153 | RESTRICTED TO -

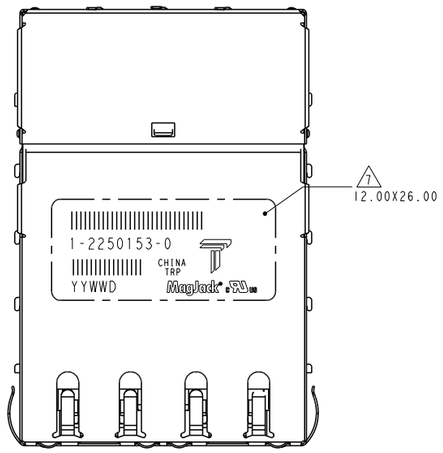
CUSTOMER DRAWING | SCALE NTS | SHEET 1 OF 4 | REV 11

Please read our datasheet & drawing disclaimer here.

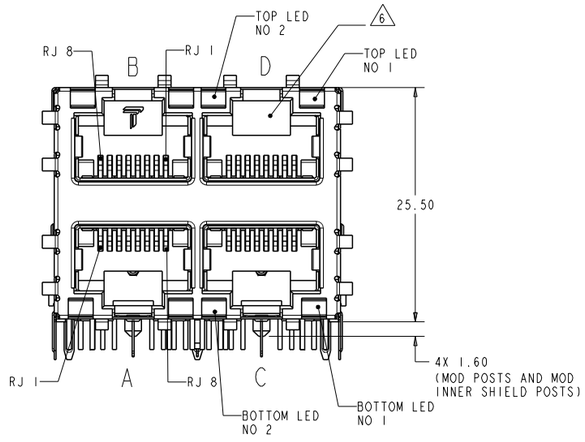
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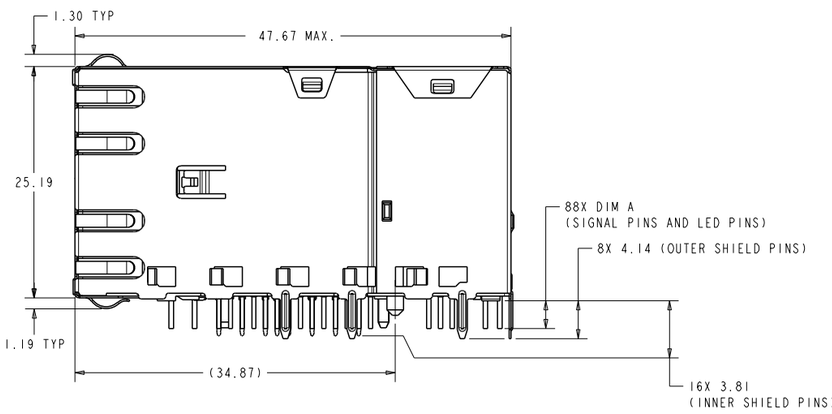


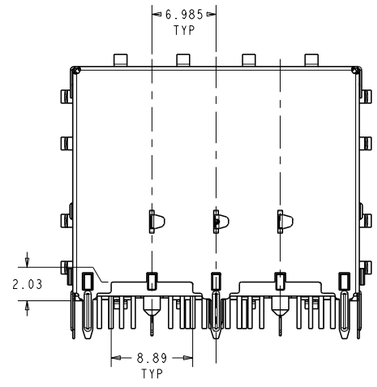

2250153-7 TOP VIEW




1-2250153-0 TOP VIEW




THIS DRAWING IS A CONTROLLED DOCUMENT.
AND COMPLIANT TO ASME Y14.5M

DIMENSIONS: mm

TOLERANCES UNLESS OTHERWISE SPECIFIED:

| | |
|---|---|
| 0 PLC | ±0.25 |
| 1 PLC | ±0.25 |
| 2 PLC | ±0.25 |
| 3 PLC | ± |
| 4 PLC | ± |
| ANGLES | ± |

PRODUCT SPEC: -

APPLICATION SPEC: -

DWN 03MAR2014 GABRIEL.ZHOU
CHK 03MAR2014 TOMMY.REN;BILL.LIU
APVD 03MAR2014 TONY YUAN

trp CONNECTOR a bel group
DONGGUAN CHINA

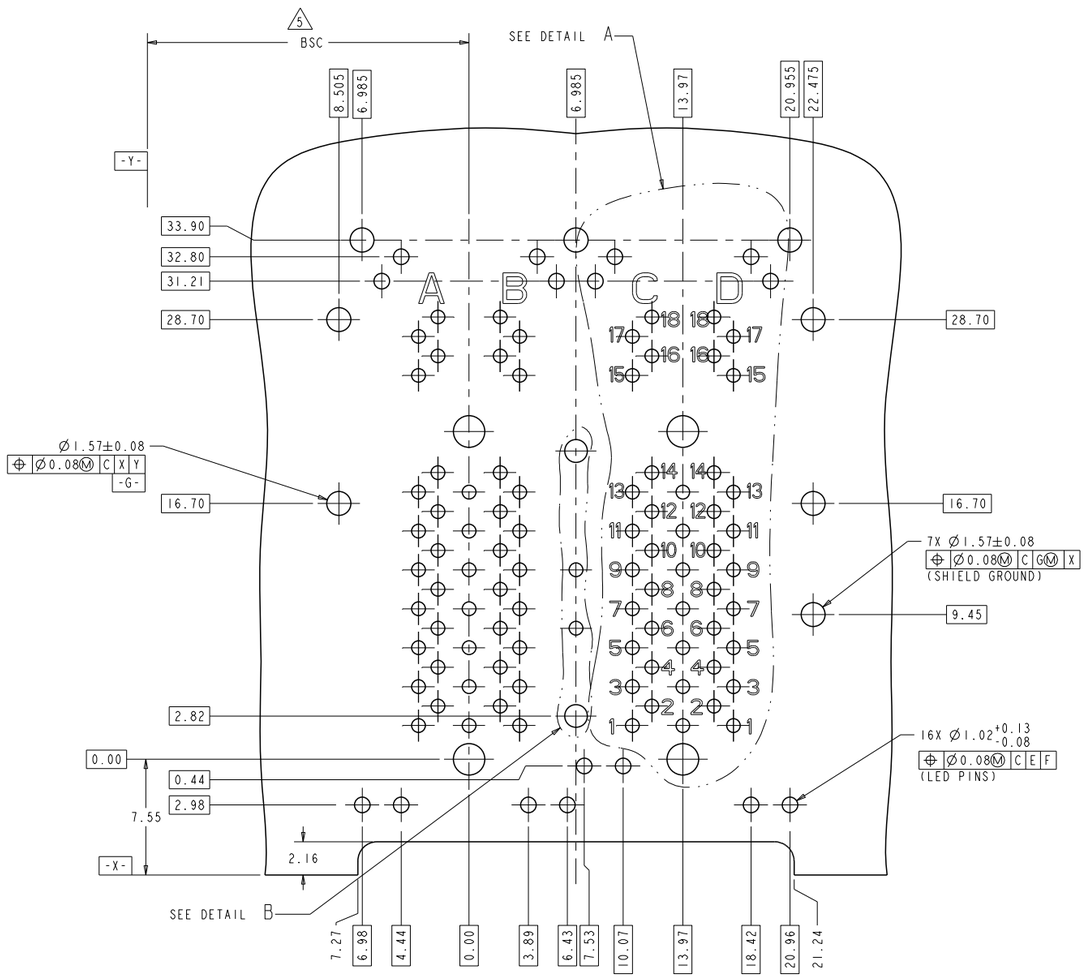
MODEL NAME: MAGJACK STACK 4PPoE

DESC: 2X2, 10G S9HTG03 4PPoE CIRCUIT, W/ LED

| SIZE | CAGE CODE | DRAWING NO | RESTRICTED TO |
|---|---|---|---|
| A1 | | C-2250153 | - |

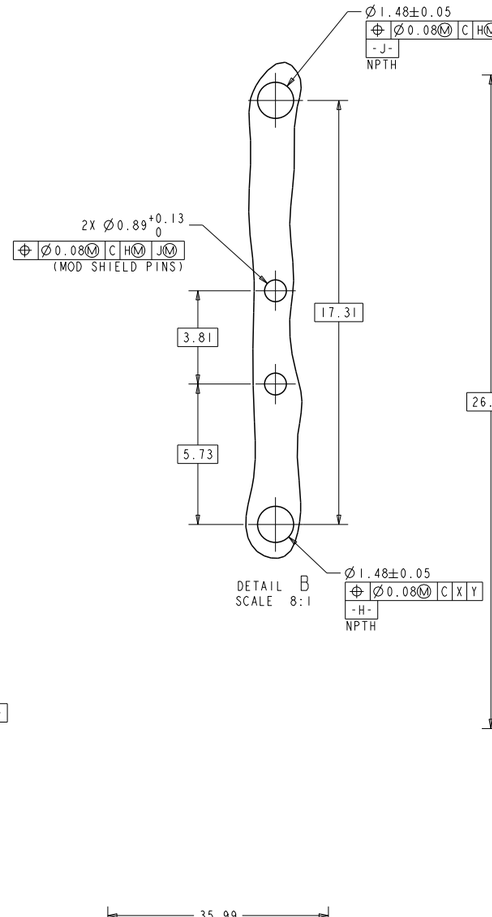
CUSTOMER DRAWING | SCALE NTS | SHEET 2 OF 4 | REV 11

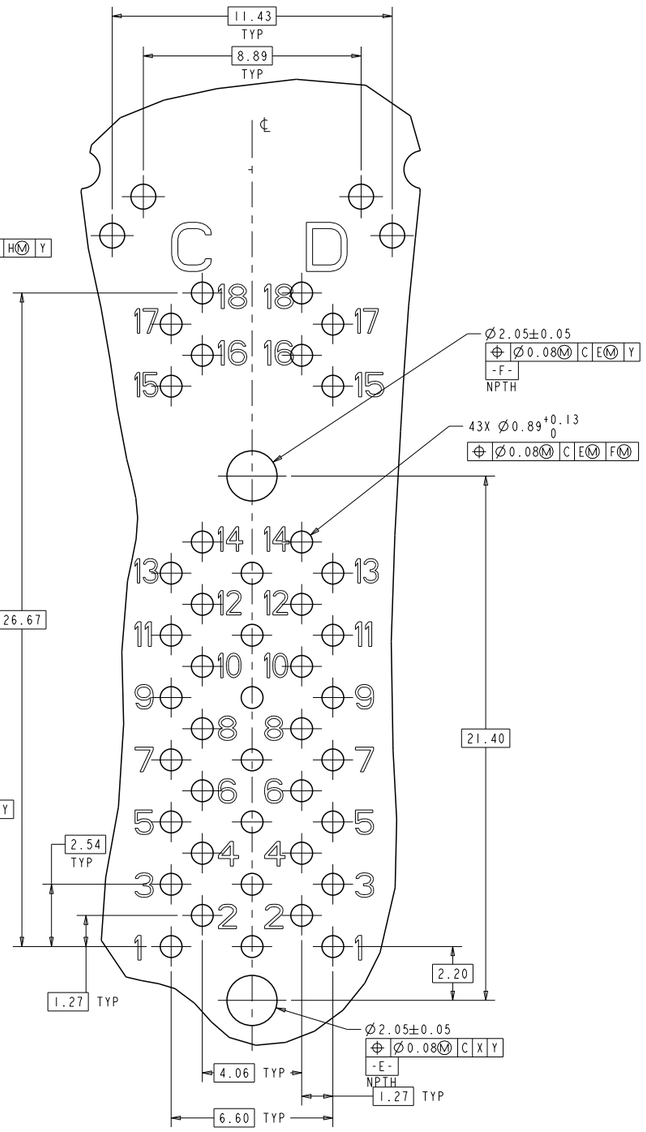
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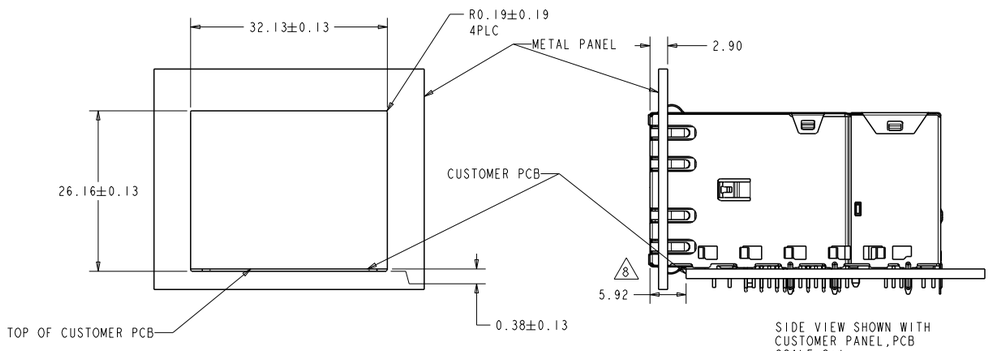

RECOMMENDED PC BOARD LAYOUT
(VIEW FROM COMPONENT SIDE)
SCALE 5:1



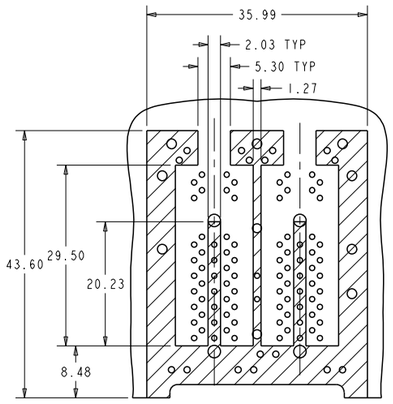




DETAIL A
2 INDIVIDUALLY
SCALE 8:1




RECOMMENDED PANEL CUTOUT DIMENSION
SCALE 2:1

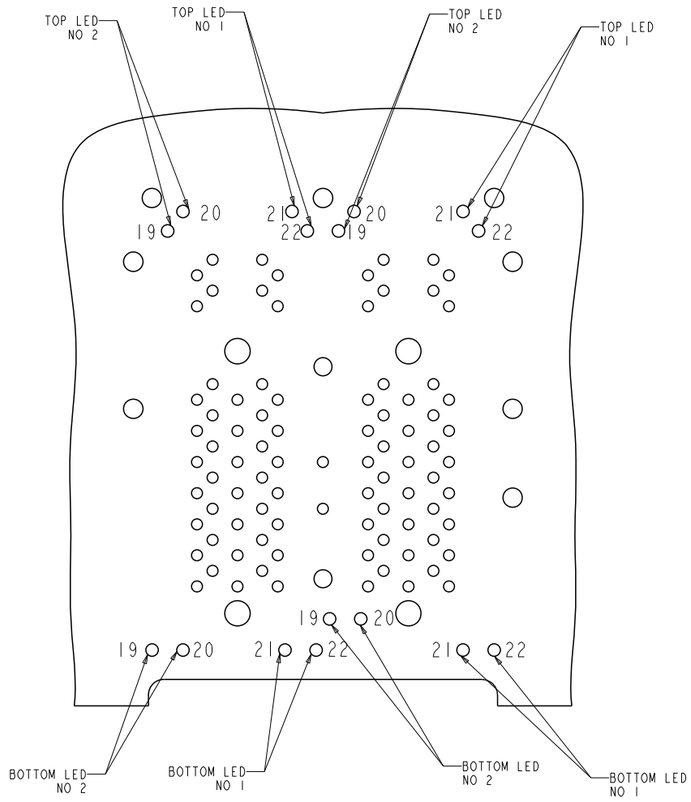
SIDE VIEW SHOWN WITH
CUSTOMER PANEL,PCB
SCALE 2:1



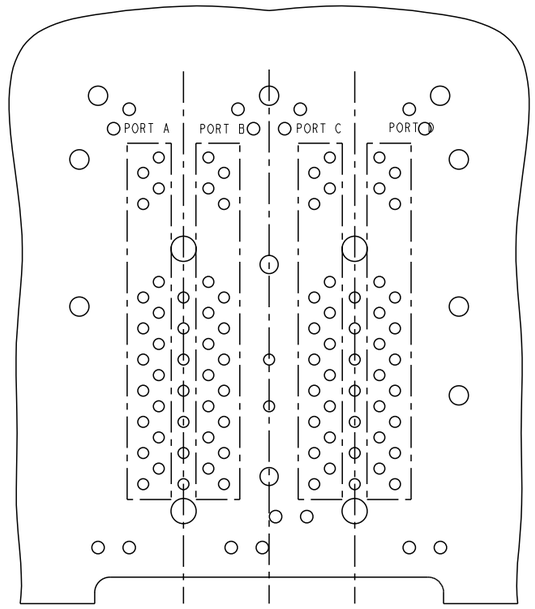

HATCHED AREA TO BE CLEAR OF ANY
COMPONENT SIDE TRACES OR VIAS
(EXCEPT FOR GROUND)
SCALE 2:1

| | | | |
|---|---|---|---|
| THIS DRAWING IS A CONTROLLED DOCUMENT. AND COMPLIANT TO ASME Y14.5M | DWN 03MAR2014 GABRIEL.ZHOU | trp CONNECTOR a bel group | DONGGUAN CHINA |
| DIMENSIONS: mm | CHK 03MAR2014 TOMMY.REN;BILL.LIU | | |
| TOLERANCES UNLESS OTHERWISE SPECIFIED: 0 PLC ±0.25, 1 PLC ±0.25, 2 PLC ±0.25, 3 PLC ±, 4 PLC ±, ANGLES ± | APVD 03MAR2014 TONY YUAN | DESC 2X2, 10G S9HTG03 4PPoE CIRCUIT, W/ LED | |
| PRODUCT SPEC - | MODEL NAME MAGJACK STACK 4PPoE | SIZE A1 | CAGE CODE | DRAWING NO C-2250153 | RESTRICTED TO - |
| APPLICATION SPEC - | CUSTOMER DRAWING | SCALE NTS | SHEET 3 OF 4 | REV I1 |

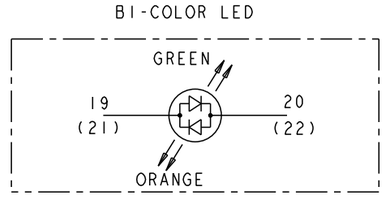
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LED HOLE DESIGNATIONS
VIEWED FROM COMPONENT SIDE
SCALE 4:1




PORT ASSIGNMENT
VIEWED FROM COMPONENT SIDE
SCALE 4:1




| | | | |
|---|---|---|---|
| THIS DRAWING IS A CONTROLLED DOCUMENT, AND COMPLIANT TO ASME Y14.5M | | DWN 03MAR2014 GABRIEL.ZHOU | trp CONNECTOR a bel group — DONGGUAN CHINA |
| DIMENSIONS: mm | TOLERANCES UNLESS OTHERWISE SPECIFIED: 0 PLC ±0.25, 1 PLC ±0.25, 2 PLC ±0.25, 3 PLC ±, 4 PLC ±, ANGLES ± | CHK 03MAR2014 TOMMY.REN;BILL.LIU | DESC 2X2, 10G S9HTG03 4PPoE CIRCUIT, W/ LED |
| PRODUCT SPEC - | APPLICATION SPEC - | APVD 03MAR2014 TONY YUAN | MODEL NAME MAGJACK STACK 4PPoE |
| | | | SIZE A1 · CAGE CODE · DRAWING NO C-2250153 · RESTRICTED TO - |
| | | CUSTOMER DRAWING | SCALE NTS · SHEET 4 OF 4 · REV 11 |