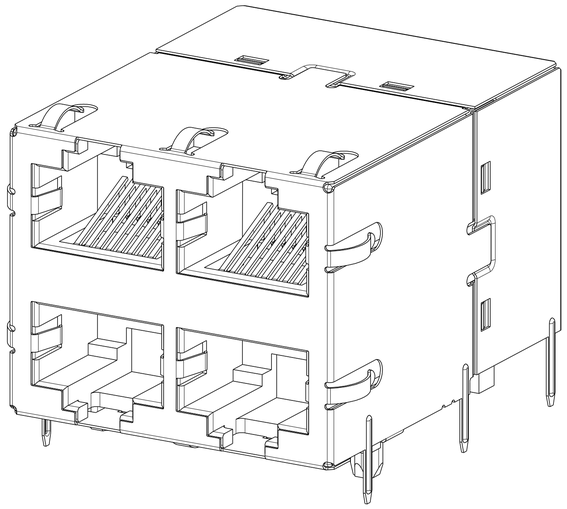
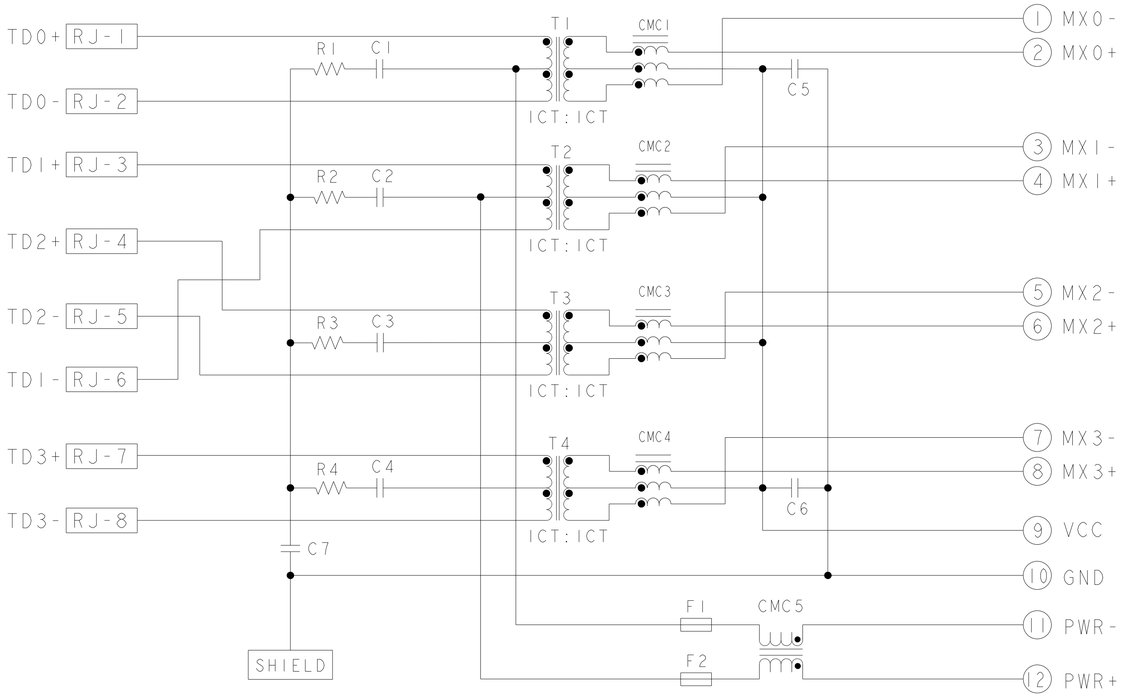
PRODUCT MAY BE PROTECTED BY ONE OR MORE OF THE FOLLOWING US PATENTS:
5736910 5939955 6425781 6428361 6554638 6840817 7123117
7429195 7717749 7808751 8217391 8149050 7924130

REVISIONS					
P	LTR	DESCRIPTION	DATE	DWN	APVD
	2	EC-1411035 COMPANY LOGO CHANGE	18DEC2014	GZ	TY



S9HG153ET GIGABIT POE PLUS CIRCUIT 2 7
TOP AND BOTTOM PORTS



R1-R4 = 75Ohms, 1/16 W, RESISTORS
C1-C4 = 22nF, 100V, CAPACITORS
C5 - C6 = 10nF, 50V, CAPACITOR
C7 = 1000pF, 2kV, DECOUPLING CAPACITOR
F1-F2 = 63V, 1.5A, FUSES

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 OR PURE TIN SOLDER DIP
ON SOLDER TAILS,
CONTACTS: PHOSPHOR BRONZE, 1.27um MIN OVERALL NICKEL
UNDERPLATE WITH SELECT 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.

2. MAGNETICS
APPLICATION: 10/100/1000 BASE-T, PoE PLUS, EXTENDED TEMPERATURE
IMPEDANCE: 100 OHMS
TURNS RATIO (CHIP:CABLE): 1:1 ALL FOUR PAIRS
OPEN CIRCUIT INDUCTANCE (OCL): ALL CHANNELS
350uH MIN @100kHz, 0.1VRMS WITH 8mADC BIAS FROM -40°C TO +85°C.
120uH MIN @100kHz, 0.1VRMS WITH 19mADC BIAS FROM -40°C TO +85°C,
ACROSS RJ1-RJ2 & RJ3-RJ6
ALL FOUR PAIRS BI-DIRECTIONAL
POE CURRENT: 600mADC MAX
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.

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

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

5. OPERATING TEMP: FROM -40°C TO +85°C.

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

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

8. DATUM AND BASIC DIMENSION ESTABLISHED BY CUSTOMER.

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

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

22501139-1
PART NUMBER

THIS DRAWING IS A CONTROLLED DOCUMENT.

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: 108-104004
APPLICATION SPEC: -

DWN 23DEC2013 TOMMY REN/TERRY LIN
CHK 23DEC2013 TOMMY REN
APVD 23DEC2013 KEITH ZHU

trp CONNECTOR a bel group — DONGGUAN CHINA

MODEL NAME: MAGJACK STACK PoE+
DESC: 2X2 S9HG153ET GIGABIT PoE+ W/O LED
SIZE A1 | CAGE CODE | DRAWING NO C-2250139 | RESTRICTED TO -
CUSTOMER DRAWING | SCALE 4:1 | SHEET 1 OF 3 | REV 2

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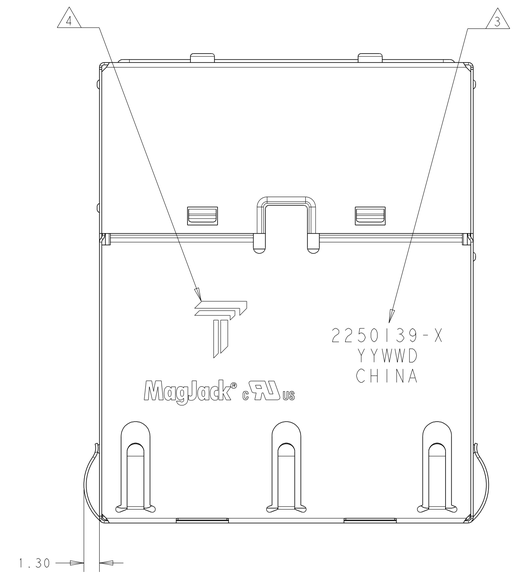

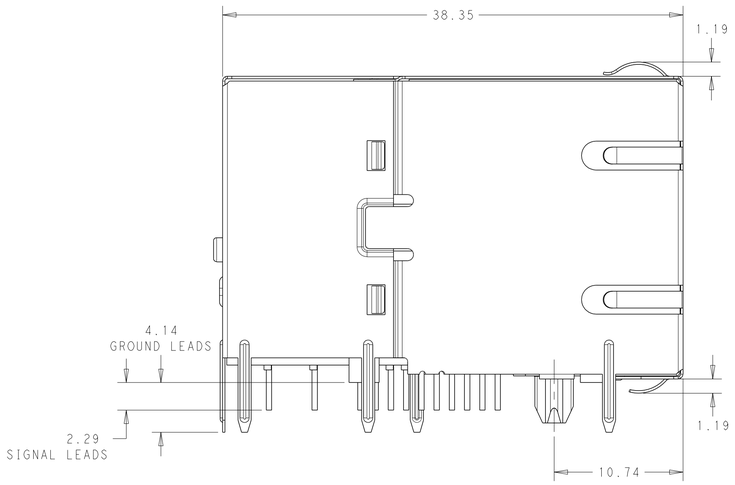

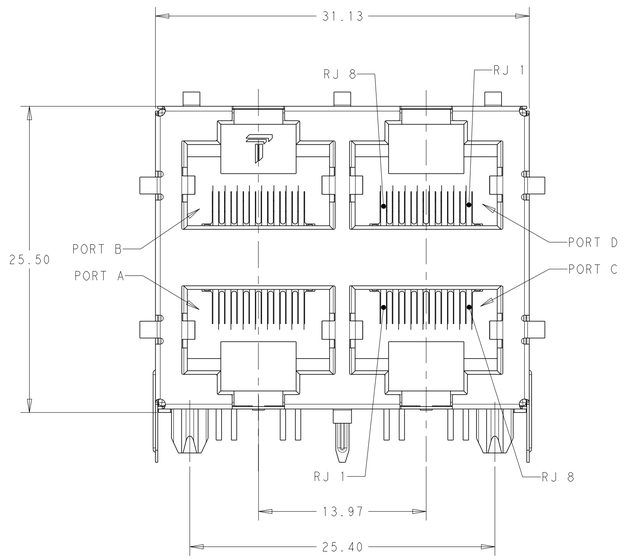

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DIMENSIONS: mm

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

PRODUCT SPEC 108-104004

APPLICATION SPEC -

DWN 23DEC2013 TOMMY REN/TERRY LIN
CHK 23DEC2013 TOMMY REN
APVD 23DEC2013 KEITH ZHU

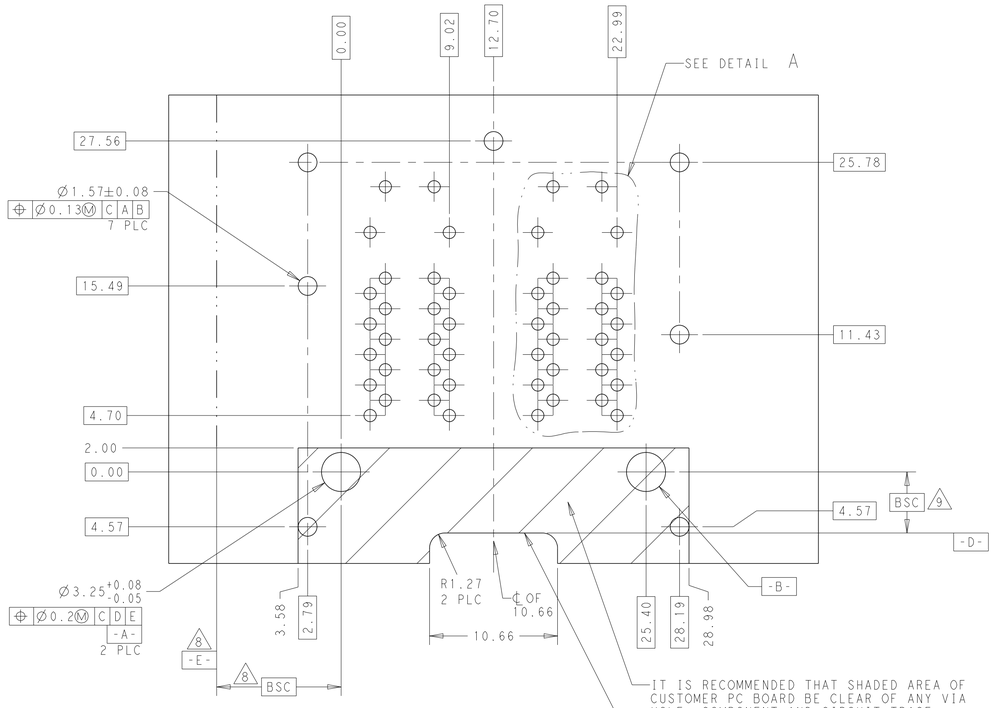
trp CONNECTOR a bel group — DONGGUAN CHINA

MODEL NAME: MAGJACK STACK PoE+

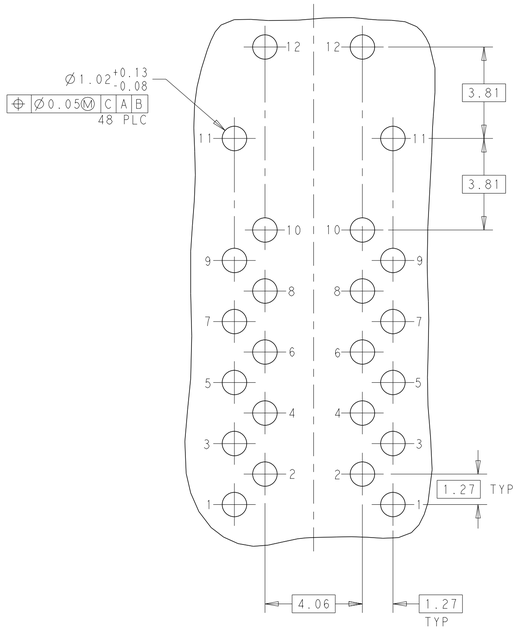
DESC: 2X2 S9HG153ET GIGABIT PoE+ W/O LED

SIZE A1 | CAGE CODE | DRAWING NO: C-2250139 | RESTRICTED TO -

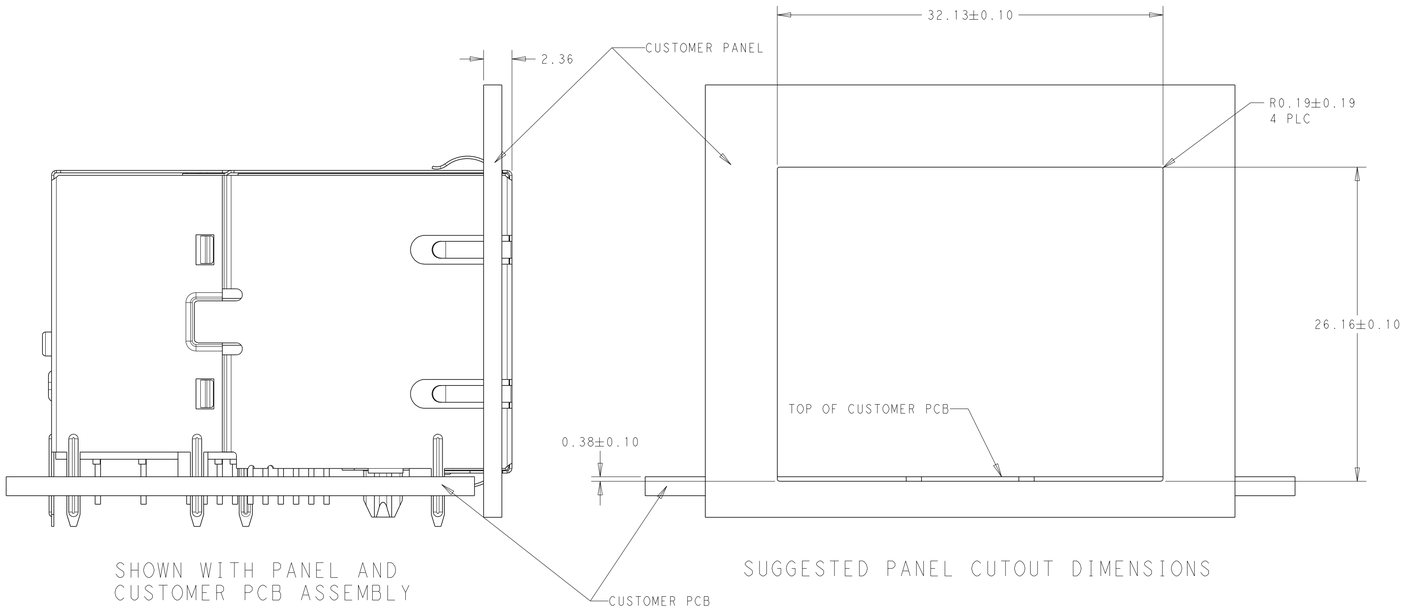
CUSTOMER DRAWING | SCALE 4:1 | SHEET 2 OF 3 | REV 2



RECOMMENDED PCB LAYOUT
COMPONENT SIDE VIEW

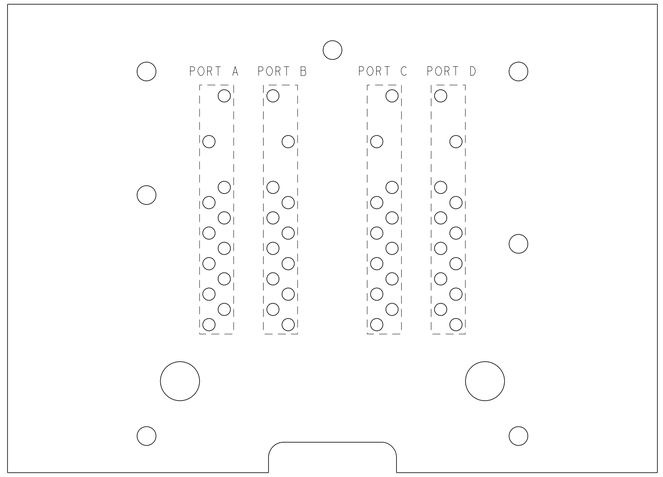


DETAIL A
SCALE 8:1



SHOWN WITH PANEL AND
CUSTOMER PCB ASSEMBLY

SUGGESTED PANEL CUTOUT DIMENSIONS



PORT ASSIGNMENT
COMPONENT SIDE VIEW

THIS DRAWING IS A CONTROLLED DOCUMENT.

DIMENSIONS: mm

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

PRODUCT SPEC -

APPLICATION SPEC -

DWN 23DEC2013 - TOMMY REN/TERRY LIN -
CHK 23DEC2013 TOMMY REN
APVD 23DEC2013 KEITH ZHU

trp CONNECTOR a bel group
DONGGUAN CHINA

MODEL NAME
model_name1
model_name2

DESC
2X2 MAG45(TM), GIGABIT S9HG153ET

SIZE A1 | CAGE CODE | DRAWING NO C-2250139 | RESTRICTED TO -

CUSTOMER DRAWING | SCALE NTS | SHEET 3 OF 3 | REV I

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