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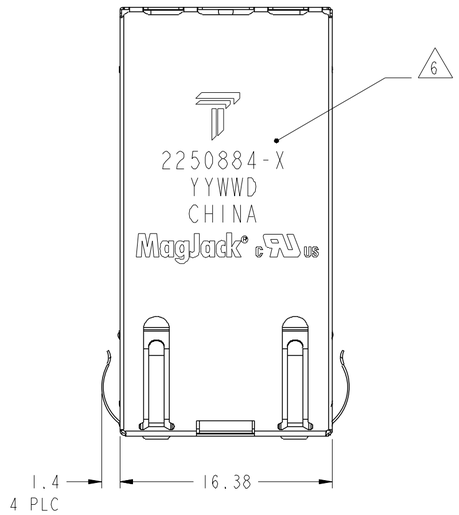
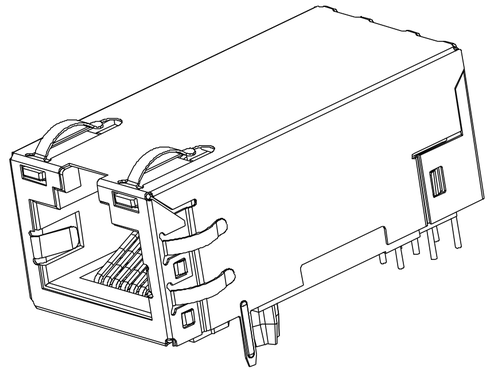
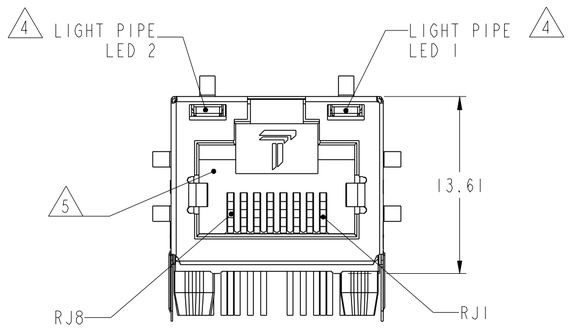
PRODUCT MAY BE PROTECTED BY ONE OR MORE OF THE FOLLOWING US PATENTS:
5736910 5939955 6425781 6428361 6554638 6840817 7123117
7429195 7717749 7808751 6217391 6149050 7924130

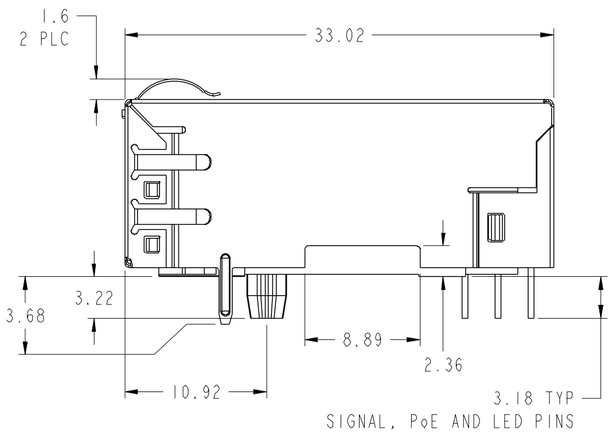
REVISIONS

P	LTR	DESCRIPTION	DATE	DWN	APVD
	1	SEE LAST SHEET	10OCT2023	TRY	TY
	2	SEE LAST SHEET	15OCT2023	TRY	TY

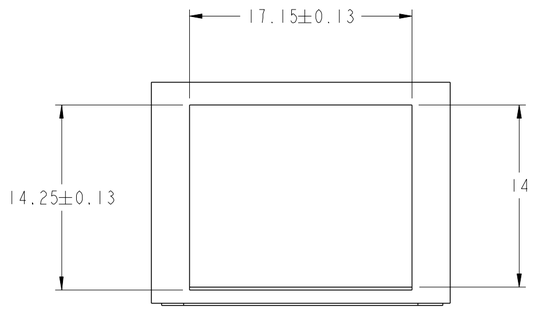




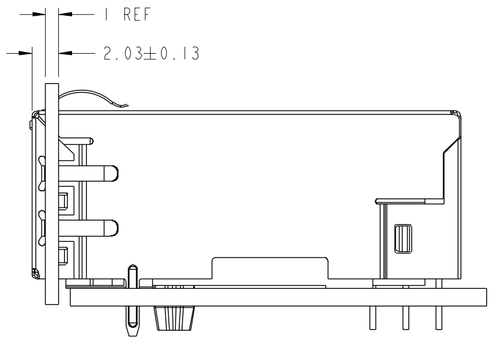




SIGNAL, PoE AND LED PINS



SUGGESTED PANEL CUTOUT



CONNECTOR ASSEMBLED TO PANEL AND PCB

1. MATERIALS
   HOUSING: THERMOPLASTIC, BLACK, FLAMMABILITY RATING UL 94V-0
   SHIELD: STAINLESS STEEL, 0.15mm THICK,PREPLATED WITH MIN 0.76µm SEMI-BRIGHT NICKEL POST DIPPED WITH 2.54µm MIN SAC SOLDER AT GROUND PINS.
   CONTACT: PHOSPHOR BRONZE, 0.46mmX0.30mm WITH 1.27µm MIN OVERALL NICKEL UNDERPLATE AND SELECTIVE 1.27µm MIN GOLD PLATING AT MATING INTERFACE.
   SOLDER TAIL(LED AND SIGNAL): Ø0.45mm COPPER PLATED STEEL,PLATED WITH 2.54µm MIN TIN.

2 MAGNETICS
   -APPLICATION: 10G BASE-T EXTENDED TEMPERATURE
   -IMPEDANCE: 100 OHMS
   -TURNS RATIO (CHIP:CABLE): 1:1 ALL FOUR PAIRS
   -OPEN CIRCUIT INDUCTANCE (OCL): ALL CHANNELS 160uH MIN @100kHz, 0.1VRMS, 8mA DC BIAS FROM -40°C TO 85°C,
   -ALL FOUR PAIRS BI-DIRECTIONAL
   -PERFORMANCE @ 25°C: PLEASE REFER TO SEPARATE SHEET
   -ISOLATION VOLTAGE: 2250VDC FOR 60 SECONDS WITH A RISE TIME OF 500V/SEC.

3. OPERATING TEMPERATURE: -40°C TO 85°C

4 LIGHT PIPES ARE USED TO TRANSMIT LIGHT OF LED.
   LEDS ARE DRIVEN WITH CONSTANT CURRENT AT APPROX 20mA.
   LED COLOR: DOMINANT WAVELENGTH (λD): GREEN 567nm TYP. at IF=20mA
   FORWARD VOLTAGE (VF): GREEN 2.2V TYP. at IF=20mA
   DOMINANT WAVELENGTH (λD): YELLOW 587nm TYP. at IF=20mA
   FORWARD VOLTAGE (VF): YELLOW 2.1V TYP. at IF=20mA

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

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

7. PART IS RECOMMENDED FOR WAVE SOLDERING PROCESS, PEAK WAVE SOLDERING TEMPERATURE IS 260°C, 10 SECOND MAX.

2250884-1
PART NUMBER

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

DIMENSIONS: mm

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

PRODUCT SPEC: 108-104004
APPLICATION SPEC: -

DWN 10OCT2023 TOWER YU / XENIA WANG
CHK 10OCT2023 BILL LIU
APVD 10OCT2023 TONY YUAN

trp CONNECTOR a bel group — DONGGUAN CHINA

MODEL NAME: MAGJACK SINGLE Non-PoE

DESC: 1X1 7TG05ET 10G EXTENDED TEMPERATUR TAB UP, W/ LEDS

SIZE A2 | CAGE CODE | DRAWING NO C-2250884 | RESTRICTED TO -

CUSTOMER DRAWING | SCALE NTS | SHEET 1 OF 3 | REV 2

xxxxx

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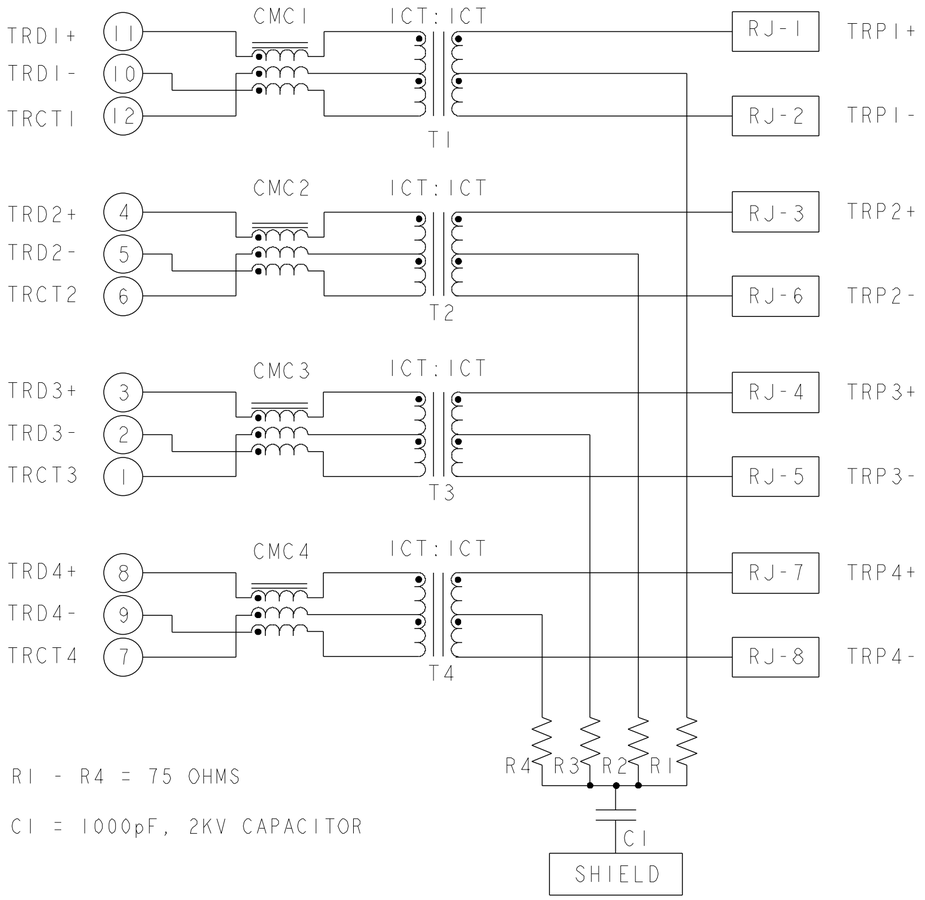
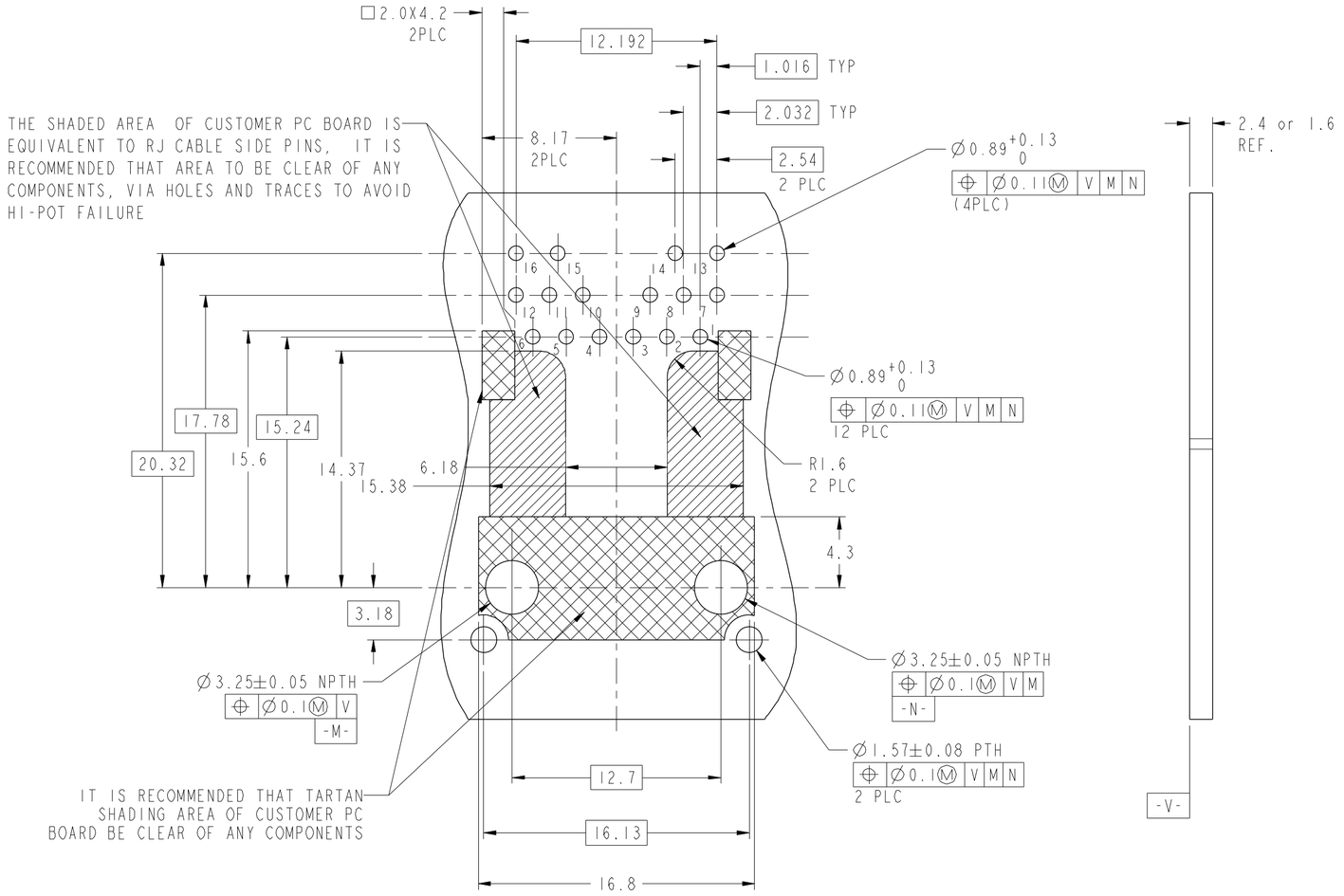
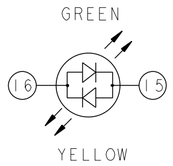
7TG05ET 10 GIGABIT CIRCUIT ⚠2



R1 - R4 = 75 OHMS

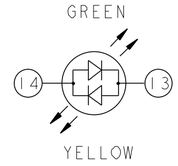
C1 = 1000pF, 2KV CAPACITOR





LED2

SUGGESTED PCB FOOTPRINT
COMPONENT SIDE



LED1

THIS DRAWING IS A CONTROLLED DOCUMENT. AND COMPLIANT TO ASME Y14.5M		DWN 10OCT2023 TOWER YU / XENJA WANG	trp CONNECTOR a bel group — DONGGUAN CHINA
DIMENSIONS: mm	TOLERANCES UNLESS OTHERWISE SPECIFIED: 0 PLC ±- 1 PLC ±0.25 2 PLC ±0.25 3 PLC ±0.25 4 PLC ±- ANGLES ±-	CHK 10OCT2023 BILL LIU	DESC IXI 7TG05ET 10G EXTENDED TEMPERATUR TAB UP, W/ LEDS
PRODUCT SPEC 108-104004	APPLICATION SPEC -	APVD 10OCT2023 TONY YUAN	MODEL NAME MAGJACK SINGLE Non-PoE
			SIZE A2 · CAGE CODE · DRAWING NO C-2250884 · RESTRICTED TO -
		CUSTOMER DRAWING	SCALE NTS · SHEET 2 OF 3 · REV 2

xxxxx

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2250884_C	STOCK DISPOSITION
	A:CONTINUE AS IS B:REWORK C:SCRAP D:USE OLD FIRST E:PARTS TO CONFORM F:OTHER

REVISION HISTORY

DATE	REV	CHANGE	REASON	APPROVAL	INVENTORY (A,B,C,D,E,F)	WORK IN PROCESS (A,B,C,D)	SUPPLIER ORDERS (A,E,F)	OPEN CUST ORDERS (A,E,F)
10OCT2023	1	-	INITIAL RELEASE	TONY YUAN	-	-	-	-
15OCT2023	2	SHEET 2, B1-B2: REDRAW LEDS POLARITY SCHEMATICS	CUSOTMER REQUEST	TONY YUAN	-	-	-	-

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

DIMENSIONS: mm

TOLERANCES UNLESS OTHERWISE SPECIFIED:

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

PRODUCT SPEC: 108-104004

APPLICATION SPEC: -

DWN 10OCT2023 TOWER YU / XENJA WANG
CHK 10OCT2023 BILL LIU
APVD 10OCT2023 TONY YUAN

MODEL NAME: MAGJACK SINGLE Non-PoE

trp CONNECTOR a bel group — DONGGUAN CHINA

DESC: IXI 7TG05ET 10G EXTENDED TEMPERATUR TAB UP, W/ LEDS

SIZE	CAGE CODE	DRAWING NO	RESTRICTED TO
A2		C-2250884	-

CUSTOMER DRAWING | SCALE NTS | SHEET 3 OF 3 | REV 2

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