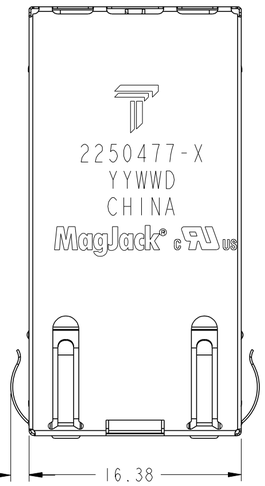
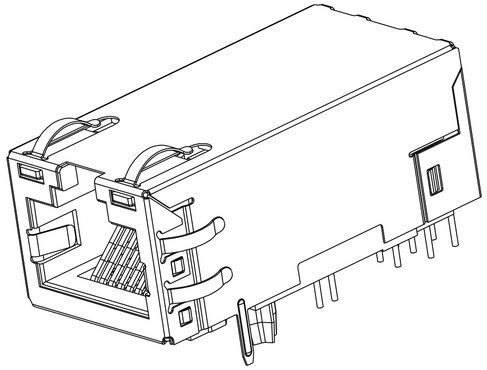
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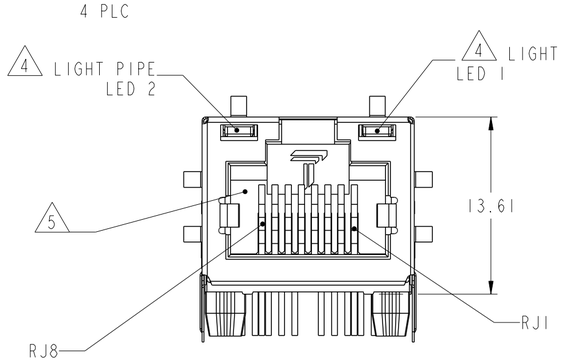
PRODUCT MAY BE PROTECTED BY ONE OR MORE OF THE FOLLOWING US PATENTS:
5736910 5939955 6425781 6428361 6554638 6840817 7123117
7429195 7717749 7808751 6217391 6149050 7924130

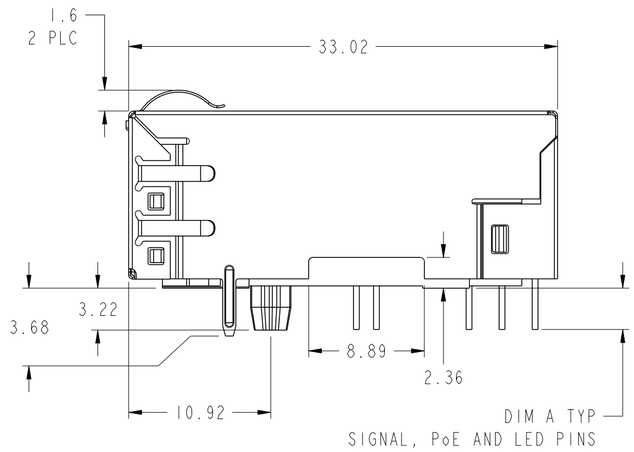
REVISIONS

P	LTR	DESCRIPTION	DATE	DWN	APVD
	1	INITIAL RELEASE	30NOV2016	TRY	TY









SIGNAL, PoE AND LED PINS

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.

2 MAGNETICS
- -APPLICATION: 5G BASE-T 4PPoE EXTENDED TEMPERATURE
- -IMPEDANCE: 100 OHMS
- -TURNS RATIO (CHIP:CABLE): 1:1 ALL FOUR PAIRS
- -OPEN CIRCUIT INDUCTANCE (OCL) ALL FOUR PAIRS:
  180uH MIN @100kHz, 0.1VRMS, 8mA DC BIAS FROM -40°C TO 85°C,
  120uH MIN @100kHz, 0.1VRMS,19mA DC BIAS FROM -40°C TO 85°C,
- -ALL FOUR PAIRS BI-DIRECTIONAL
- -PoE CURRENT: 600mADC MAX
- -ISOLATION VOLTAGE: 2250VDC FOR 60 SECONDS WITH A RISE TIME OF 500V/SEC.

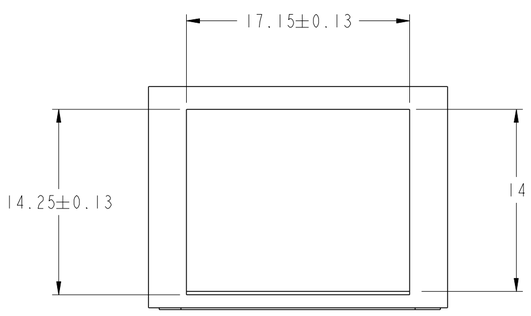
3. OPERATING TEMPERATURE: -40°C TO 85°C

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
DOMINANT WAVELENGTH (λD): ORANGE 605 nm TYP @ IF=20 mA
FORWARD VOLTAGE (VF): ORANGE 2.1V TYP @ IF=20 mA

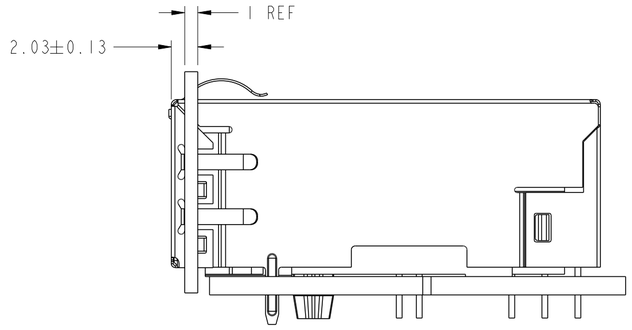
5 RJ45 CAVITY CONFORMS TO FCC RULES AND REGULATION PART 68 SUBPART F.

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



SUGGESTED PANEL CUTOUT



CONNECTOR ASSEMBLED
TO PANEL AND PCB

3.18	ORANGE	GREEN	-	YELLOW	2250477-1
DIM A	20 19	20 19	18 17	18 17	PART NUMBER
	LED 2 8		8 LED 1		

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: -
APPLICATION SPEC: -

DWN 30NOV2016 TOWER YU / XENIA WANG
CHK 30NOV2016 BILL LIU
APVD 30NOV2016 TONY YUAN

trp CONNECTOR a bel group — DONGGUAN CHINA

MODEL NAME: MAGJACK SINGLE 4PPOE

DESC: 1X1 7HFG02ET 5GIGABIT 4PPoE TAB UP, W/ LEDS

SIZE	CAGE CODE	DRAWING NO	RESTRICTED TO
A2		C-2250477	-

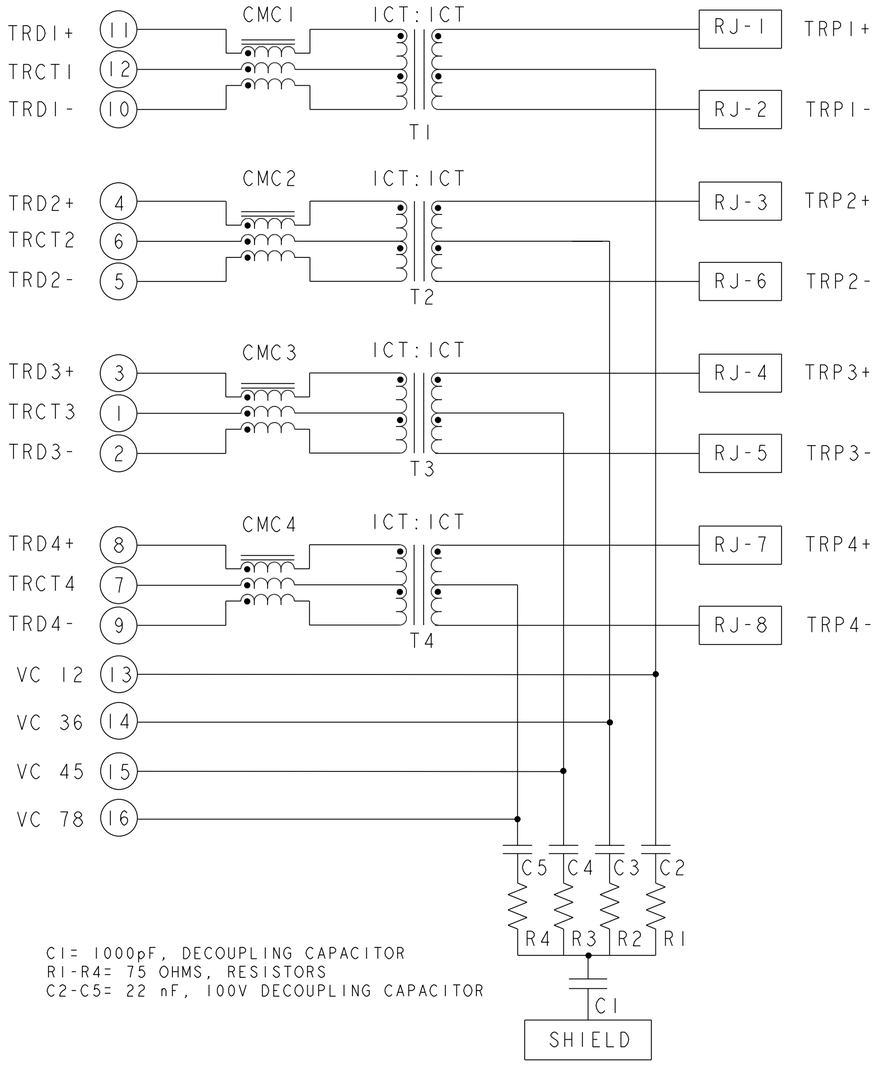
CUSTOMER DRAWING | SCALE NTS | SHEET 1 OF 3 | REV 1

xxxxx

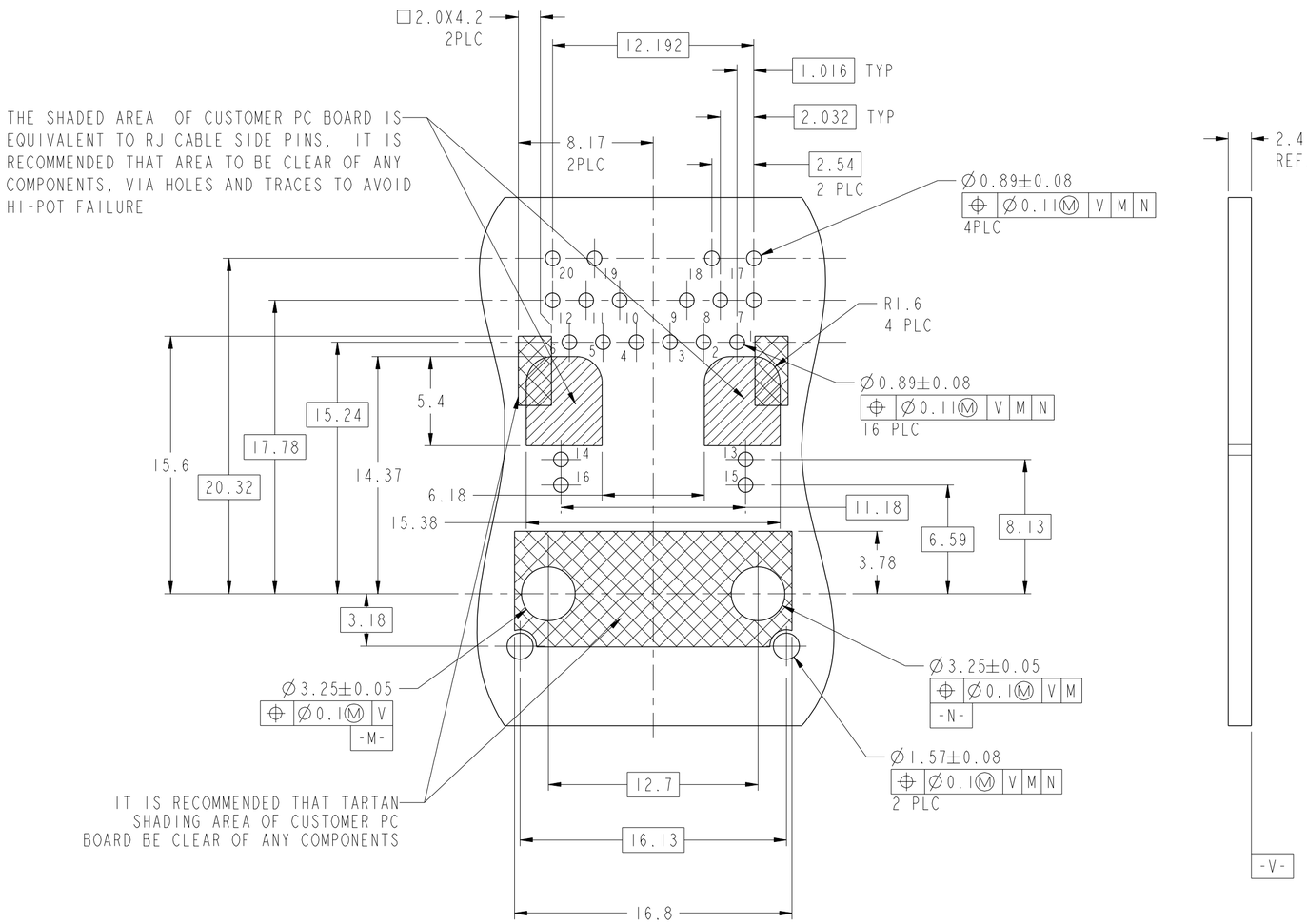
Please read our datasheet & drawing disclaimer here.

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7HFG02ET 5GIGABIT 4PPOE CIRCUIT ⚠2



C1= 1000pF, DECOUPLING CAPACITOR
R1-R4= 75 OHMS, RESISTORS
C2-C5= 22 nF, 100V DECOUPLING CAPACITOR



SUGGESTED PCB FOOTPRINT
COMPONENT SIDE

THIS DRAWING IS A CONTROLLED DOCUMENT. AND COMPLIANT TO ASME Y14.5M		DWN 30NOV2016 TOWER YU / XENIA 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 30NOV2016 BILL LIU	DESC IXI 7HFG02ET 5GIGABIT 4PPoE TAB UP, W/ LEDS
PRODUCT SPEC -	APPLICATION SPEC -	APVD 30NOV2016 TONY YUAN	SIZE A2 · CAGE CODE · DRAWING NO C-2250477 · RESTRICTED TO -
		MODEL NAME MAGJACK SINGLE 4PPOE	CUSTOMER DRAWING · SCALE NTS · SHEET 2 OF 3 · REV 1

xxxxx

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2250477_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)
30NOV2016	I	-	INITIAL RELEASE	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: -

APPLICATION SPEC: -

DWN 30NOV2016 TOWER YU / XENIA WANG
CHK 30NOV2016 BILL LIU
APVD 30NOV2016 TONY YUAN

MODEL NAME: MAGJACK SINGLE 4PPOE

trp CONNECTOR a bel group — DONGGUAN CHINA

DESC: IXI 7HFG02ET 5GIGABIT 4PPoE TAB UP, W/ LEDS

SIZE	CAGE CODE	DRAWING NO	RESTRICTED TO
A2		C-2250477	-

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

xxxxx