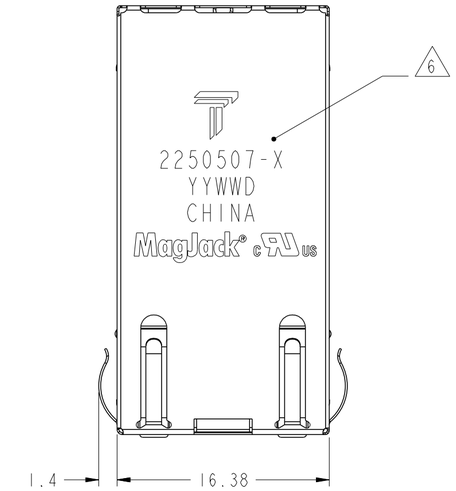
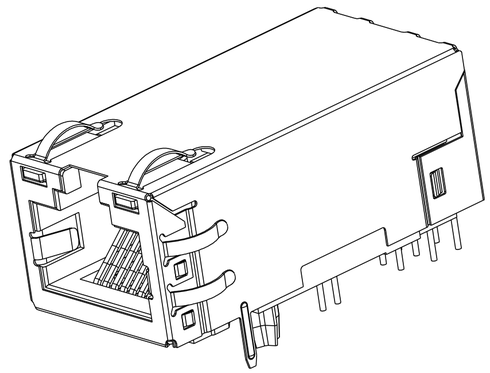
THIS DRAWING AND THE SUBJECT MATTER SHOWN THEREON ARE CONFIDENTIAL AND THE PROPERTY OF BEL/STEWART/TRP CONNECTOR AND SHALL NOT BE REPRODUCED, COPIED, OR USED IN ANY MANNER WITHOUT THE WRITTEN CONSENT OF TRP CONNECTOR.

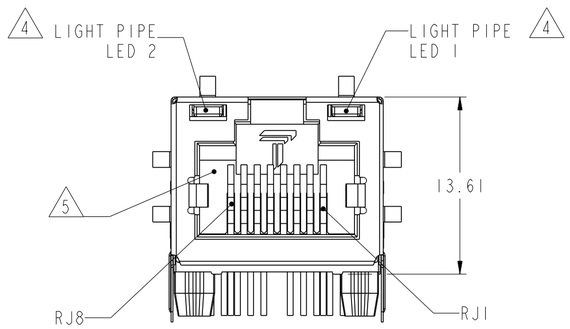
PRODUCT MAY BE PROTECTED BY ONE OR MORE OF THE FOLLOWING US PATENTS:
5736910 5939955 6425781 6428361 6554638 6840817 7123117
7429195 7717749 7808751 6217391 6149050 7924130

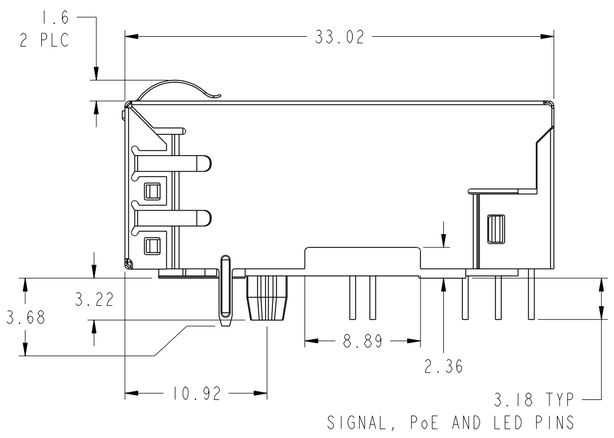
REVISIONS

P	LTR	DESCRIPTION	DATE	DWN	APVD
	1	INITIAL RELEASE	19APR2017	TRY	TYY









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.
   SOLDER TAIL(LED AND SIGNAL): Ø0.45mm COPPER PLATED STEEL,PLATED WITH
   2.54μm MIN TIN.

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 CHANNELS
   180uH MIN @100kHz, 0.1VRMS, 8mA DC BIAS FROM -40°C TO 85°C,
   120uH MIN @100kHz, 0.1VRMS, 23mA DC BIAS FROM -40°C TO 85°C.
   -ALL FOUR PAIRS BI-DIRECTIONAL
   -PoE CURRENT: 900mADC MAX
   -PERFORMANCE @ 25°C: PLEASE REFER TO SEPARATE SHEET
   -ISOLATION VOLTAGE: 2250VDC FOR 60 SECONDS WITH A RISE TIME OF 500V/SEC.

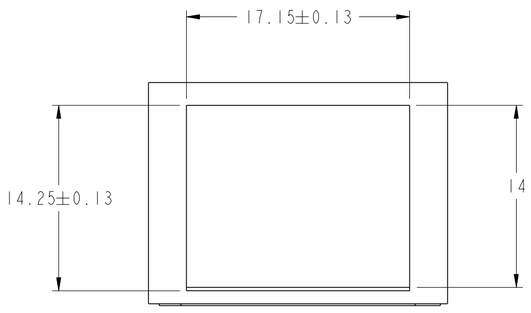
3. OPERATING TEMPERATURE: -40°C TO 85°C

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

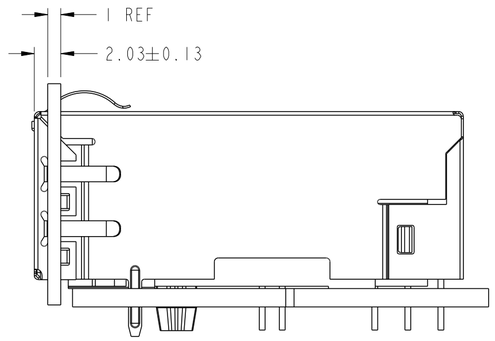
5. RJ45 CAVITY CONFORMS TO FCC RULES AND REGULATION PART 68 SUBPART F.

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

ORANGE	GREEN	-	YELLOW	2250507-1
20—19	20—19	18—17	18—17	PART NUMBER
LED 2		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 19APR2017 TOWER YU / XENIA WANG
CHK 19APR2017 BILL LIU
APVD 19APR2017 TONY YUAN

trp CONNECTOR a bel group — DONGGUAN CHINA

MODEL NAME: MAGJACK SINGLE 4PPOE

DESC: 1X1 7UHT01ET 5G 4PPoE 100W EXTENDED TEMPERATUR TAB UP, W/ LEDS

SIZE	CAGE CODE	DRAWING NO	RESTRICTED TO
A2		C-2250507	-

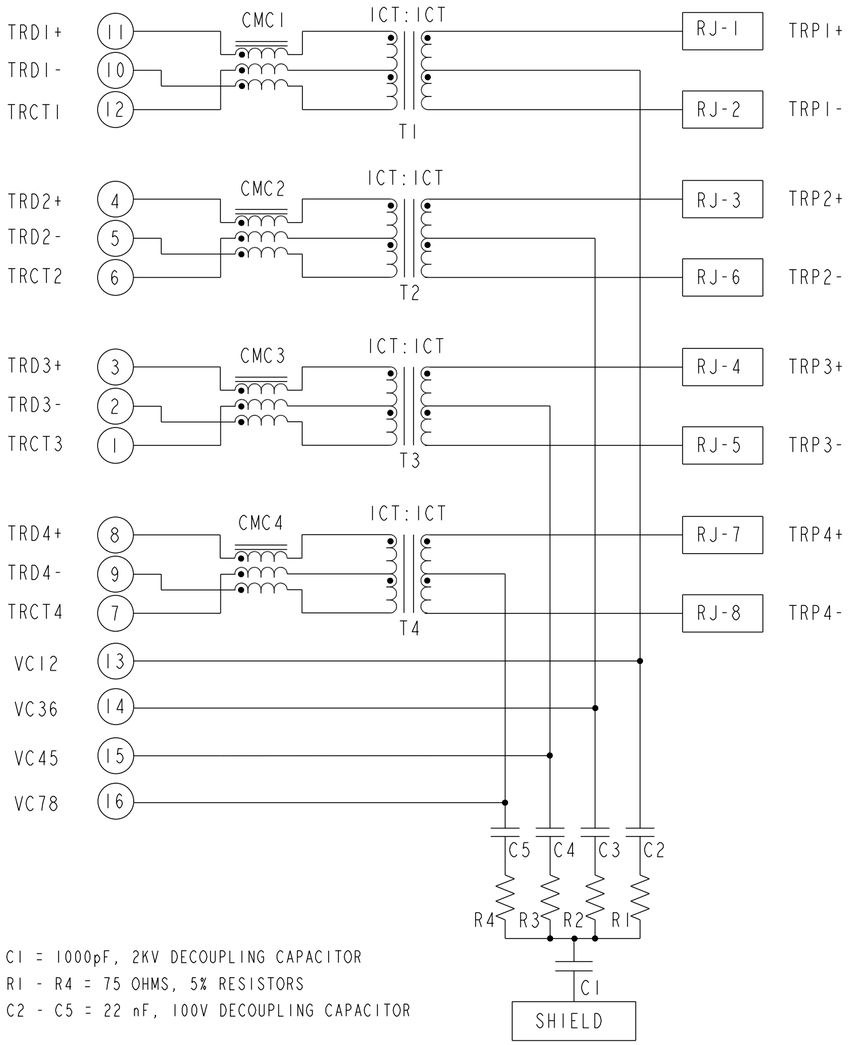
CUSTOMER DRAWING | SCALE NTS | SHEET 1 OF 3 | REV 1

xxxxx

Please read our datasheet & drawing disclaimer here.

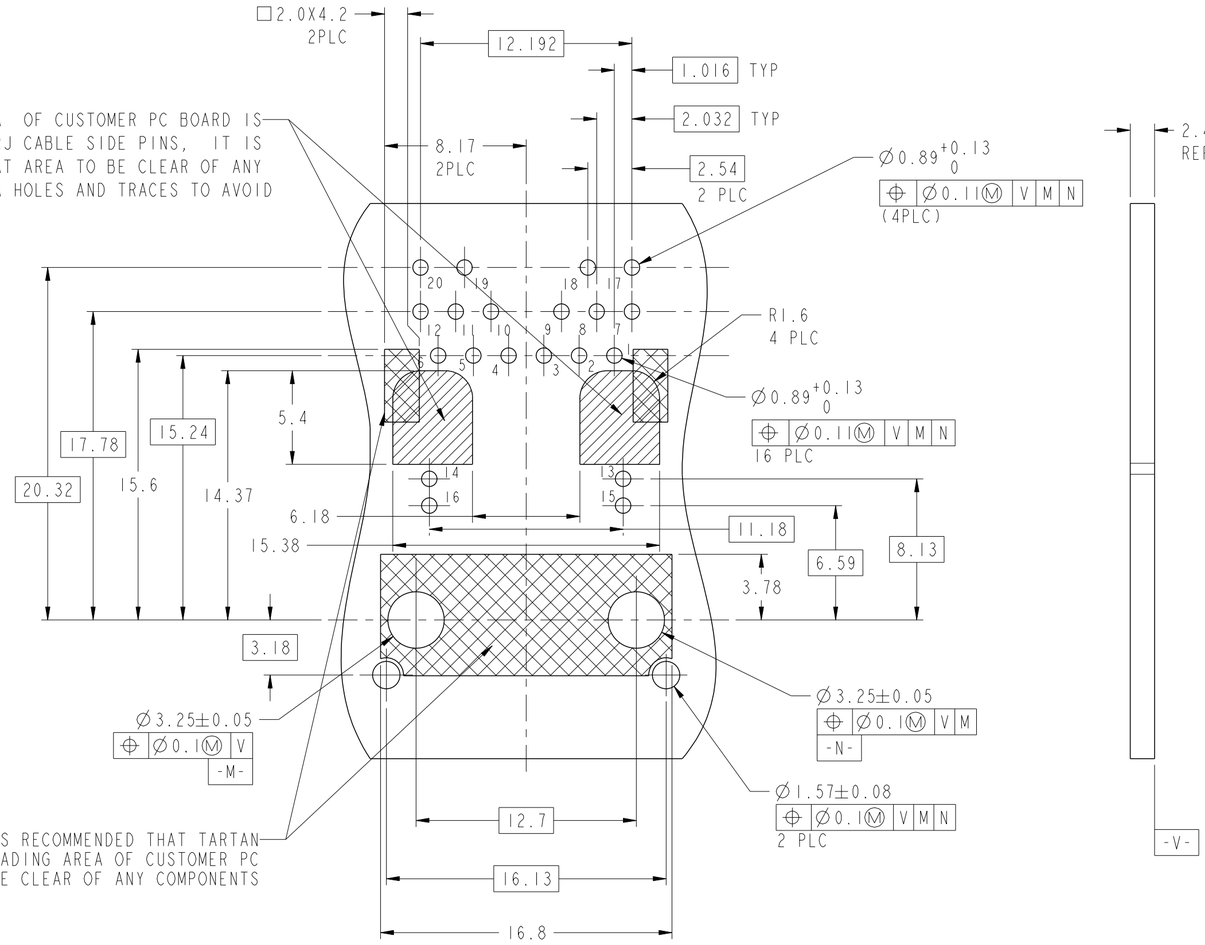
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7UHT0IET 5G BASE-T 100W CIRCUIT ⚠2



C1 = 1000pF, 2KV DECOUPLING CAPACITOR
R1 - R4 = 75 OHMS, 5% RESISTORS
C2 - C5 = 22 nF, 100V DECOUPLING CAPACITOR

THE SHADED AREA OF CUSTOMER PC BOARD IS EQUIVALENT TO RJ CABLE SIDE PINS, IT IS RECOMMENDED THAT AREA TO BE CLEAR OF ANY COMPONENTS, VIA HOLES AND TRACES TO AVOID HI-POT FAILURE



IT IS RECOMMENDED THAT TARTAN SHADING AREA OF CUSTOMER PC BOARD BE CLEAR OF ANY COMPONENTS

SUGGESTED PCB FOOTPRINT
COMPONENT SIDE

THIS DRAWING IS A CONTROLLED DOCUMENT. AND COMPLIANT TO ASME Y14.5M		DWN 19APR2017 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 19APR2017 BILL LIU	
		APVD 19APR2017 TONY YUAN	
PRODUCT SPEC -	APPLICATION SPEC -	MODEL NAME MAGJACK SINGLE 4PPOE	DESC 1X1 7UHT0IET 5G 4PPoE 100W EXTENDED TEMPERATUR TAB UP, W/ LEDS
			SIZE A2 · CAGE CODE · DRAWING NO C-2250507 · RESTRICTED TO -
		CUSTOMER DRAWING	SCALE NTS · SHEET 2 OF 3 · REV 1

xxxxx

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2250507_C	STOCK DISPOSITION
	A:CONTINUE AS IS D:USE OLD FIRST B:REWORK E:PARTS TO CONFORM C:SCRAP 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)
19APR2017	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 19APR2017 TOWER YU / XENIA WANG
CHK 19APR2017 BILL LIU
APVD 19APR2017 TONY YUAN

MODEL NAME: MAGJACK SINGLE 4PPOE

trp CONNECTOR a bel group — DONGGUAN CHINA

DESC: IXI 7UHTOIET 5G 4PPoE 100W EXTENDED TEMPERATUR TAB UP, W/ LEDS

SIZE	CAGE CODE	DRAWING NO	RESTRICTED TO
A2		C-2250507	-

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

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