

REV.	Change Content	Date
A	Initial Release	APR.26.2017

NOTES: UNLESS OTHERWISE SPECIFIED

1. THIS COMPONENT CONFORMS TO UL60950.

	WARNING: THIS COMPONENT IS RECOGNIZED BY ONE OR MORE SAFETY AGENCIES SUCH AS UL, VDE, CSA AND/OR TUV. ALL ENGINEERING CHANGES MUST HAVE PRIOR APPROVAL BY THE DESIGN CENTER QUALITY DEPARTMENT FOR SAFETY AGENCY COMPLIANCE.	ECN APPROVAL:
		QA APPROVAL:
		DATE:

	NOTICE: THIS IS A RoHS COMPLIANT COMPONENT/PRODUCT. ALL ENGINEERING CHANGES MUST HAVE PRIOR APPROVAL BY THE DESIGN CENTER.

3. ELECTRICAL CHARACTERISTICS:

- 3-1. CURRENT RATING: 0.1 AMPERES MAXIMUM
 3-2. VOLTAGE RATING: 48 VAC MAXIMUM
 3-3. INSULATION RESISTANCE: 500 MEGAOHMS MINIMUM

4. MECHANICAL

- 4-1. MATING FORCE: 5 POUNDS MAXIMUM WITH LATCH
 DEPRESSED AT AN ADVANTAGEOUS ANGLE
 UNMATING FORCE: 5 POUNDS MAXIMUM WITH LATCH
 DEPRESSED AT AN ADVANTAGEOUS ANGLE
 PLUG RETENTION FORCE: 90N MINIMUM
 4-2. DURABILITY (MATING/UNMATING): 750 CYCLES
 4-3. INSERTION FORCE OF PCB RETENTION POSTS: 15 POUNDS MAX
 4-4. OPERATING TEMPERATURE RANGE: 0 TO +70°C
 4-5. STORAGE TEMPERATURE RANGE: -40 TO +85°C
 4-6. SOLDER CONDITION: WAVE SOLDER 265±5°C FOR 10 SECONDS MAX

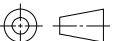
5. MATERIAL

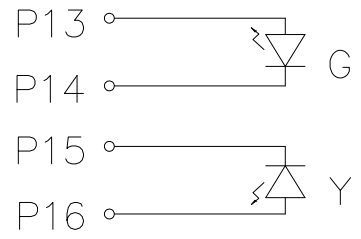
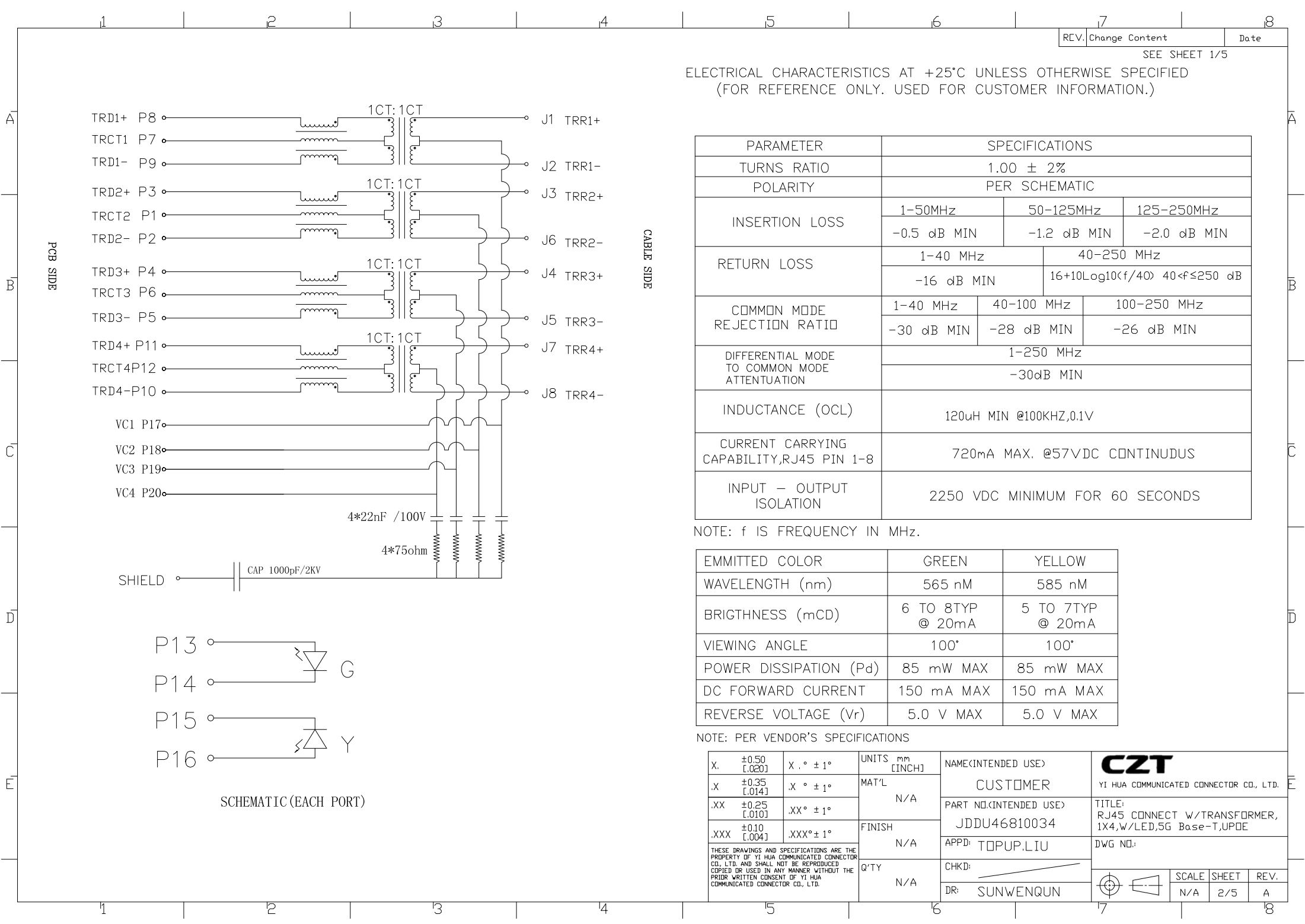
- 5-1. HOUSING: THERMOPLASTIC UL 94V-0, LCP, BLACK
 5-2. CONTACT BASE MATERIAL: PHOSPHOR BRONZE
 5-3. CONTACT UNDERPLATE: 50-90 MICROINCHES DUCTILE NICKEL
 5-4. CONTACT PLATING: GOLD, 50 MICROINCHES MIN IN CONTACT AREA
 5-5. CONTACT STRUCTURE: SECONDARY BEND
 5-6. SOLDER TAIL PLATING MATERIAL: 100-200 MICROINCHES MATTE TIN MIN OVER 50 MICROINCHES NICKEL, MATTE FINISH
 5-7. METAL SHIELD: 50-100 MICROINCHES NICKEL PLATING ON COPPER ALLOY
 5-8. SHIELD PIN: SOLDER WITH MATTE TIN

6. JACK CAVITY CONFORMS TO FCC RULES AND REGULATIONS PART 68 SUBPART F
 7. PCB PLATING: EG (TOP PCB)
 ENIG (BOTTOM PCB)

8. JEDEC MOISTURE: LEVEL 1.

9. REVISION: MX1, MX2, ARE PRELIMINARY.

X.	±0.50 [.020]	X ° ± 1°	UNITS mm [INCH]	NAME (INTENDED USE)	CZT			
.X	±0.35 [.014]	.X ° ± 1°	MAT'L	CUSTOMER	YI HUA COMMUNICATED CONNECTOR CO., LTD.			
.XX	±0.25 [.010]	.XX ° ± 1°	N/A	PART NO. (INTENDED USE)	TITLE:			
.XXX	±0.10 [.004]	.XXX ° ± 1°	FINISH	JDDU46810034	RJ45 CONNECT W/TRANSFORMER, 1X4, W/LED, 5G Base-T, UPOE			
THESE DRAWINGS AND SPECIFICATIONS ARE THE PROPERTY OF YI HUA COMMUNICATED CONNECTOR CO., LTD. AND SHALL NOT BE REPRODUCED COPIED OR USED IN ANY MANNER WITHOUT THE PRIOR WRITTEN CONSENT OF YI HUA COMMUNICATED CONNECTOR CO., LTD.			N/A	APPD: TOPUP.LIU	DWG NO.:			
			Q'TY	CHKD:				
			N/A	DR: SUNWENQUN				
					SCALE	SHEET	REV.	
					N/A	1/5	A	



SCHEMATIC (EACH PORT)

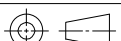
ELECTRICAL CHARACTERISTICS AT +25°C UNLESS OTHERWISE SPECIFIED
(FOR REFERENCE ONLY. USED FOR CUSTOMER INFORMATION.)

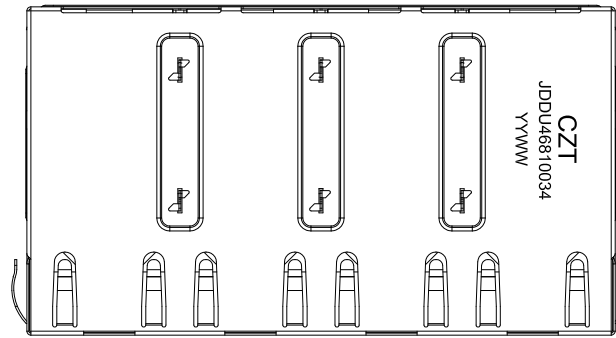
PARAMETER	SPECIFICATIONS		
TURNS RATIO	1.00 ± 2%		
POLARITY	PER SCHEMATIC		
INSERTION LOSS	1-50MHz	50-125MHz	125-250MHz
	-0.5 dB MIN	-1.2 dB MIN	-2.0 dB MIN
RETURN LOSS	1-40 MHz	40-250 MHz	
	-16 dB MIN	16+10Log10<f/40> 40<f≤250 dB	
COMMON MODE REJECTION RATIO	1-40 MHz	40-100 MHz	100-250 MHz
	-30 dB MIN	-28 dB MIN	-26 dB MIN
DIFFERENTIAL MODE TO COMMON MODE ATTENUATION	1-250 MHz		
	-30dB MIN		
INDUCTANCE (OCL)	120uH MIN @100KHZ,0.1V		
CURRENT CARRYING CAPABILITY,RJ45 PIN 1-8	720mA MAX. @57VDC CONTINUDUS		
INPUT – OUTPUT ISOLATION	2250 VDC MINIMUM FOR 60 SECONDS		

NOTE: f IS FREQUENCY IN MHZ.

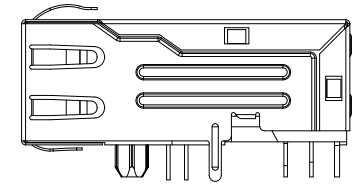
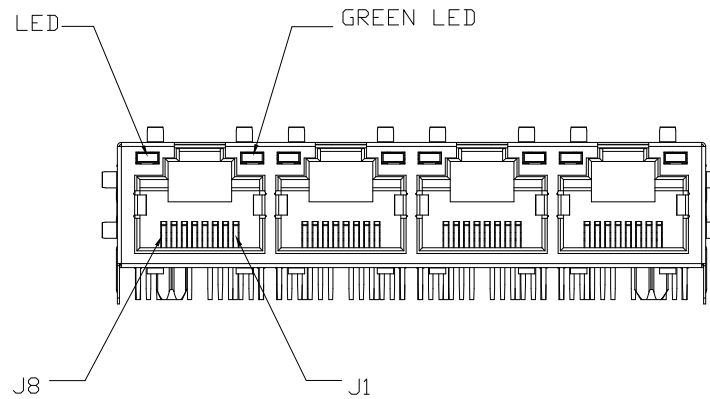
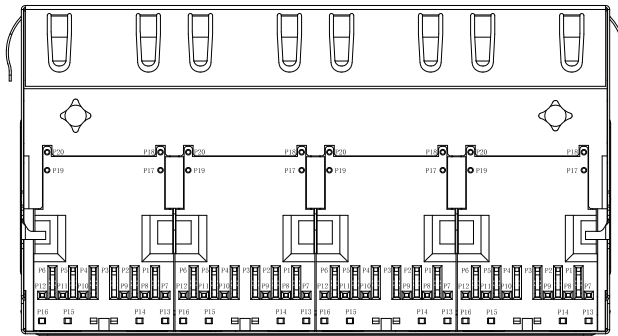
EMMITTED COLOR	GREEN	YELLOW
WAVELENGTH (nm)	565 nM	585 nM
BRIGHTHNESS (mCD)	6 TO 8TYP @ 20mA	5 TO 7TYP @ 20mA
VIEWING ANGLE	100°	100°
POWER DISSIPATION (Pd)	85 mW MAX	85 mW MAX
DC FORWARD CURRENT	150 mA MAX	150 mA MAX
REVERSE VOLTAGE (Vr)	5.0 V MAX	5.0 V MAX

NOTE: PER VENDOR'S SPECIFICATIONS

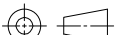
X. ±0.50 [.020]	X .° ± 1°	UNITS mm [INCH]	NAME<INTENDED USE>	CZT YI HUA COMMUNICATED CONNECTOR CO., LTD.		
.X ±0.35 [.014]	.X ° ± 1°	MAT'L	CUSTOMER			
.XX ±0.25 [.010]	.XX° ± 1°	N/A	PART NO.<INTENDED USE>	TITLE: RJ45 CONNECT W/TRANSFORMER, 1X4,W/LED,5G Base-T,UP0E		
.XXX ±0.10 [.004]	.XXX° ± 1°	FINISH	JDDU46810034			
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		Q'TY	CHKD:			
		N/A	DR: SUNWENQUN			
				SCALE	SHEET	REV.
				N/A	2/5	A

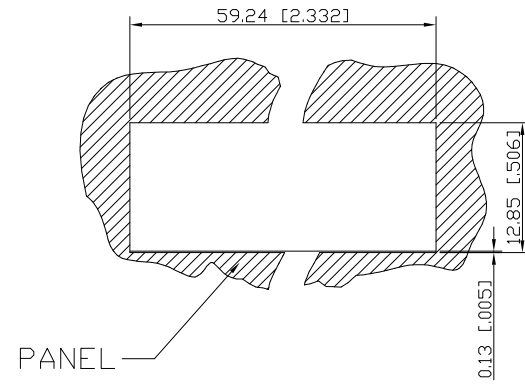
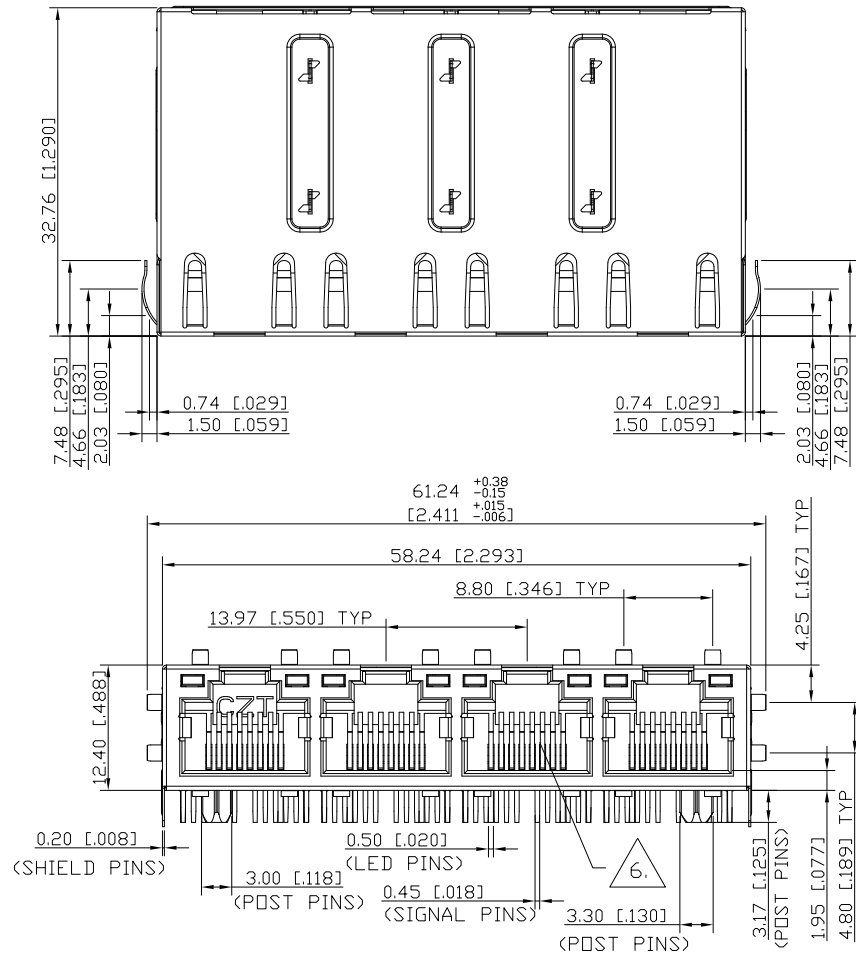


YELLOW LED GREEN LED

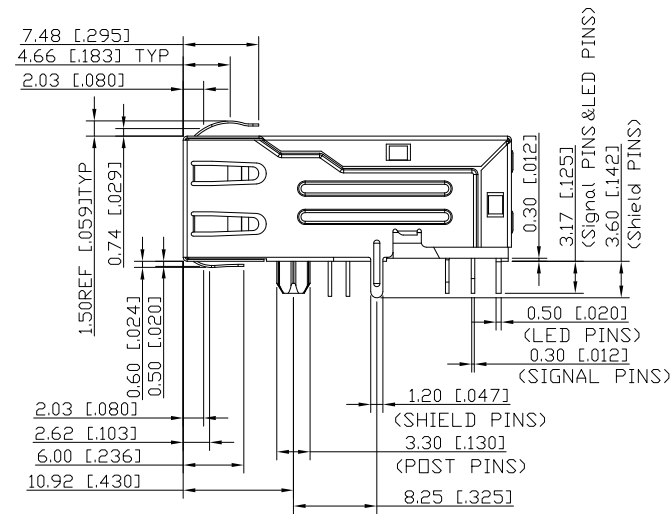
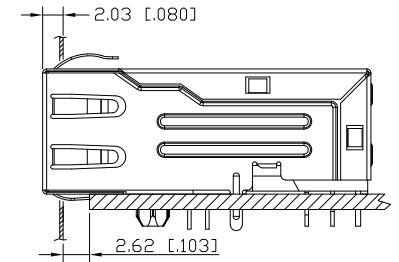


FINAL OUTLINE

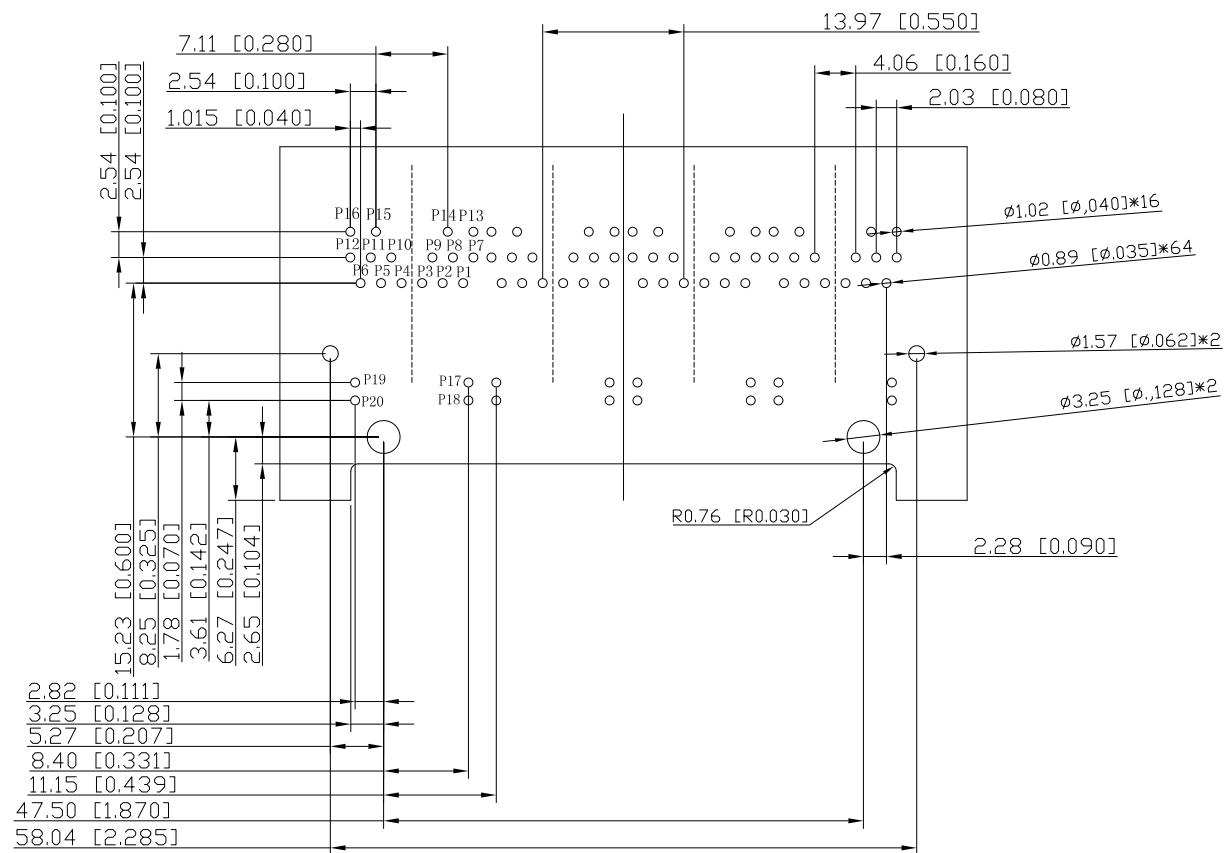
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.X	±0.35 [.014]	.X ° ± 1°	MAT'L N/A	CUSTOMER	YI HUA COMMUNICATED CONNECTOR CO., LTD.				
.XX	±0.25 [.010]	.XX° ± 1°	FINISH N/A	PART NO.(INTENDED USE)	TITLE:				
.XXX	±0.10 [.004]	.XXX° ± 1°		JDDU46810034	RJ45 CONNECT W/TRANSFORMER, 1X4,W/LED,5G Base-T,UPOE				
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			Q'TY N/A	CHKD: _____					
			DR: SUNWENQUN						
							SCALE	SHEET	REV.
							N/A	3/5	A



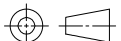
SUGGESTED PANEL CUTOUT



X.	±0.50 [.020]	X. ° ± 1°	UNITS mm [INCH]	NAME (INTENDED USE)	CZT YI HUA COMMUNICATED CONNECTOR CO., LTD.			
.X	±0.35 [.014]	.X ° ± 1°	MAT'L N/A	CUSTOMER	TITLE: RJ45 CONNECT W/TRANSFORMER, 1X4,W/LED,5G Base-T,UPDE			
.XX	±0.25 [.010]	.XX ° ± 1°		PART NO.(INTENDED USE) JDDU46810034				
.XXX	±0.10 [.004]	.XXX ° ± 1°	FINISH N/A	APPD: TOPUP.LIU	DWG NO.:			
THESE DRAWINGS AND SPECIFICATIONS ARE THE PROPERTY OF YI HUA COMMUNICATED CONNECTOR CO., LTD. AND SHALL NOT BE REPRODUCED COPIED OR USED IN ANY MANNER WITHOUT THE PRIOR WRITTEN CONSENT OF YI HUA COMMUNICATED CONNECTOR CO., LTD.				Q'TY N/A	CHKD: _____			
					DR: SUNWENQUN			



RECOMMENDED PCB LAYOUT
(VIEWED FROM COMPENENT SIDE)

X.	±0.25 [.010]	X . ° ± 1°	UNITS mm [INCH]	NAME<INTENDED USE>	CZT YI HUA COMMUNICATED CONNECTOR CO., LTD.			
.X	±0.10 [.004]	.X ° ± 1°	MAT'L	CUSTOMER				
.XX	±0.05 [.002]	.XX ° ± 1°	N/A	PART NO.<INTENDED USE>	TITLE:			
.XXX	±0.03 [.001]	.XXX ° ± 1°	FINISH	JDDU46810034	RJ45 CONNECT W/TRANSFORMER, 1X4,W/LED,5G Base-T,UPOE			
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				Q'TY				
				CHKD: _____		SCALE	SHEET	REV.
				DR: SUNWENQUN		N/A	5/5	A