

REV.	Change Content	Date
A	Initial Release	DEC.24.2019
B	Updated Content	JAN.10.2020
C	Updated Content	FEB.12.2020
D	Correct the plating thickness	JUL.01.2020

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: 4 AMPERES /PORT
- 3-2. VOLTAGE RATING: 60 VDC MAXIMUM
- 3-3. INSULATION RESISTANCE: 500 MEGAOHMS MINIMUM
- 3-4. DIELECTRIC WITHSTANDING VOLTAGE: 2250 VDC CONTACT TO SHIELD

4. MECHANICAL

- 4-1. MATING FORCE: 22N MAXIMUM WITH LATCH
DEPRESSED AT AN ADVANTAGEOUS ANGLE
UNMATING FORCE: 22N MAXIMUM WITH LATCH
DEPRESSED AT AN ADVANTAGEOUS ANGLE
PLUG RETENTION FORCE: 9Kgf MINIMUM
JACK RETENTION TO PCB: 9Kgf MIN

- 4-2. DURABILITY (MATING/UNMATING): 750 CYCLES
- 4-3. INSERTION FORCE OF PCB RETENTION POSTS: 15 POUNDS MAX
- 4-4. OPERATING TEMPERATURE RANGE: -40 TO +125°C (这里125°C为带电工作时器件内部温度规格约束, 应用时器件周围空气温度规格-40℃至+85℃)
- 4-5. STORAGE TEMPERATURE RANGE: -40 TO +85°C

5. MATERIAL

- 5-1. HOUSING: THERMOPLASTIC UL 94V-0, LCP, BLACK
- 5-2. CONTACT BASE MATERIAL: PHOSPHOR BRONZE
- 5-3. CONTACT UNDERPLATE: 50 MICROINCHES MIN DUCTILE NICKEL
- 5-4. CONTACT PLATING: GOLD, 30 MICROINCHES MIN IN CONTACT AREA
- 5-5. CONTACT STRUCTURE: SECONDARY BEND
- 5-6. SOLDER TAIL PLATING MATERIAL: 50-200 MICROINCHES MATTE TIN OVER 20-150 MICROINCHES NICKEL, MATTE FINISH
- 5-7. METAL SHIELD: 50-100 MICROINCHES NICKEL PLATING ON COPPER ALLOY
- 5-8. SHIELD PIN: SOLDER WITH MATTE TIN

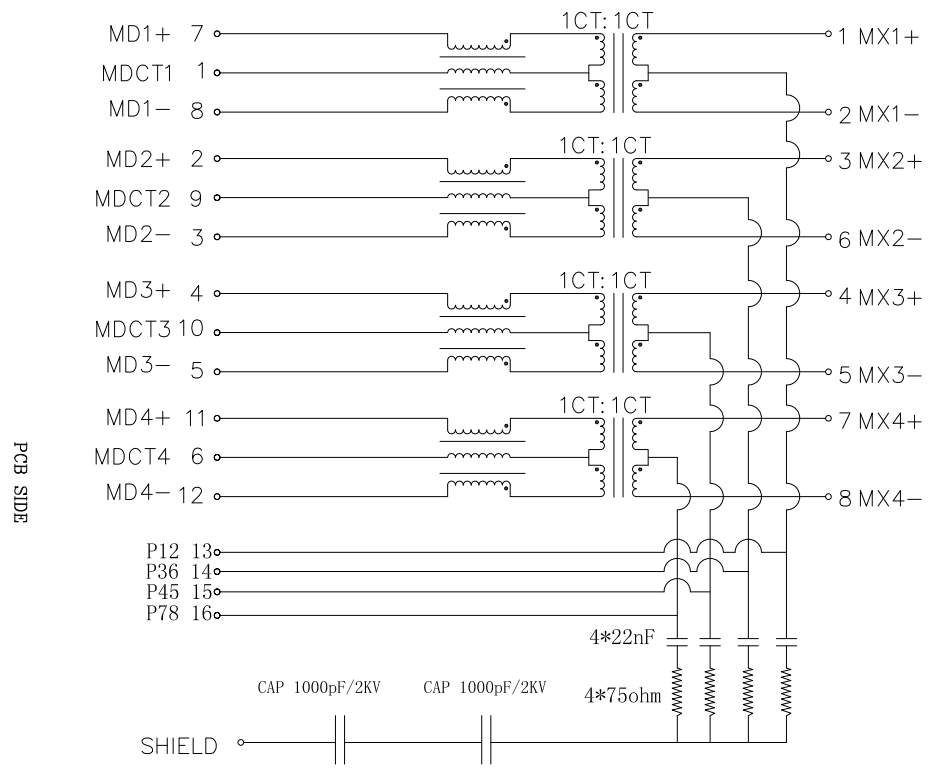
- 6. JACK CAVITY CONFORMS TO FCC RULES AND REGULATIONS PART 68 SUBPART F
- 7. PCB PLATING: EG (TOP PCB)
ENIG (BOTTOM PCB)

8. JEDEC MOISTURE: LEVEL 1.

9. REVISION: MX1, MX2, ARE PRELIMINARY.

10. MAXIMUM SMT LED HEIGHT SHOULD NOT EXCEED 1.0mm.

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	JDDU14730004	RJ45 CONNECT W/TRANSFORMER, 1X1, W/LED, 2.5G Base-T, PoE++
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: SUNWENQUN	
			N/A	DR: _____	
					SCALE SHEET REV.
					N/A 1/5 D

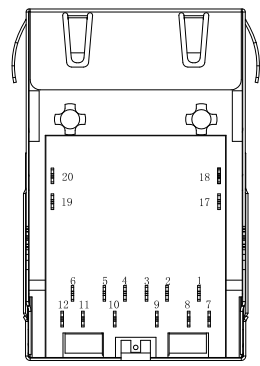
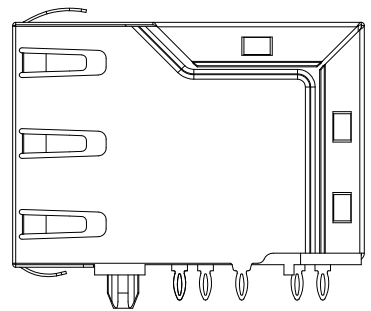
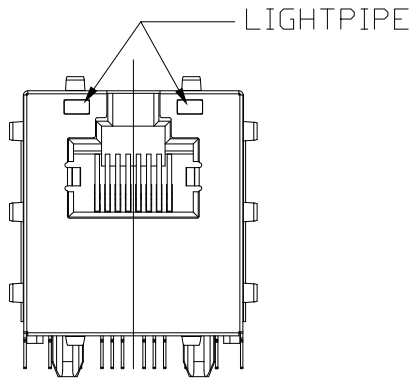
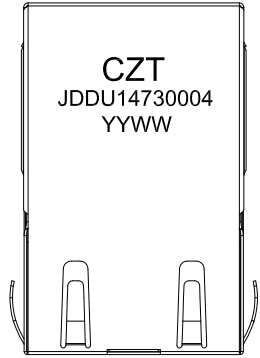


CABLE SIDE

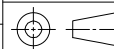
PARAMETER	SPECIFICATIONS	
OPERATING TEMPERATURE	-40 TO +125°C	
URNS RATIO	1.00 ± 2%	
POLARITY	PER SCHEMATIC	
INSERTION LOSS (SDD21&SDD12)	1-50 MHz	50-125 MHz
	-0.5 dB MAX	-1.2 dB MAX
PHY-SIDE RETURN LOSS (SDD11 - Zref = 100 OHMS ± 1%)	1 MHz-40 MHz	40 MHz-200 MHz
	-20 dB MIN	-20+15*LOG ₁₀ (f/40) dB MIN
LINE-SIDE RETURN LOSS (SDD22 - Zref = 100 OHMS ± 1%)	1 MHz-40 MHz	40 MHz-200 MHz
	-20 dB MIN	-20+15*LOG ₁₀ (f/40) dB MIN
INDUCTANCE (OCL)	150uh min@30mA DC bias	
CROSSTALK, ADJACENT CHANNELS (SDD21 - ADJ.)	1-125 MHz	
	-30 dB MIN	
COMMON MODE REJECTION RATIO	1-100MHz	100-200MHz
	-30dB MIN	-20dB MIN
COMMON MODE TO DIFFERENTIAL MODE ATTENUATION	1-100MHz	100-200MHz
	-30dB MIN	-20dB MIN
DC CURRENT CARRING CAPABILITY	2A MAX	
INPUT - OUTPUT ISOLATION	2250 VDC FOR 60 SECONDS	

NOTE: f IS FREQUENCY IN MHZ.
1.SURGE PROTECTION:LINE TO GROUND:6KV 3KA

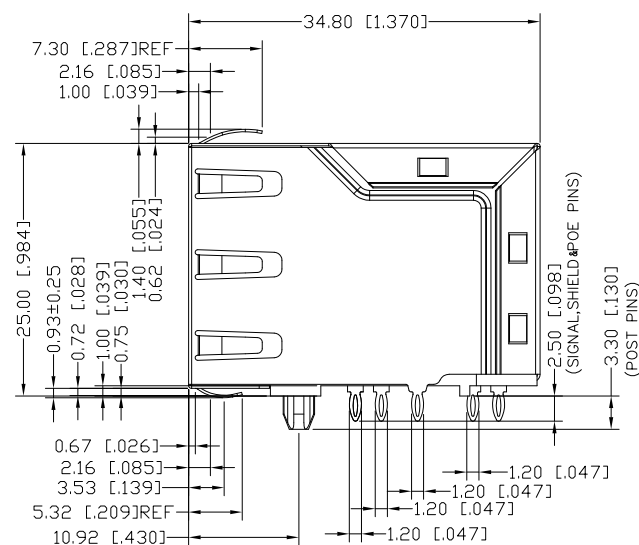
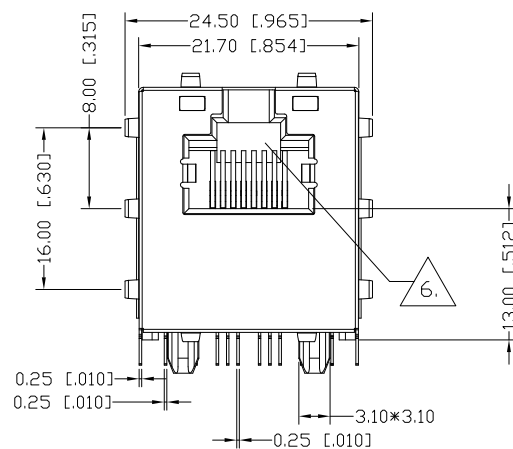
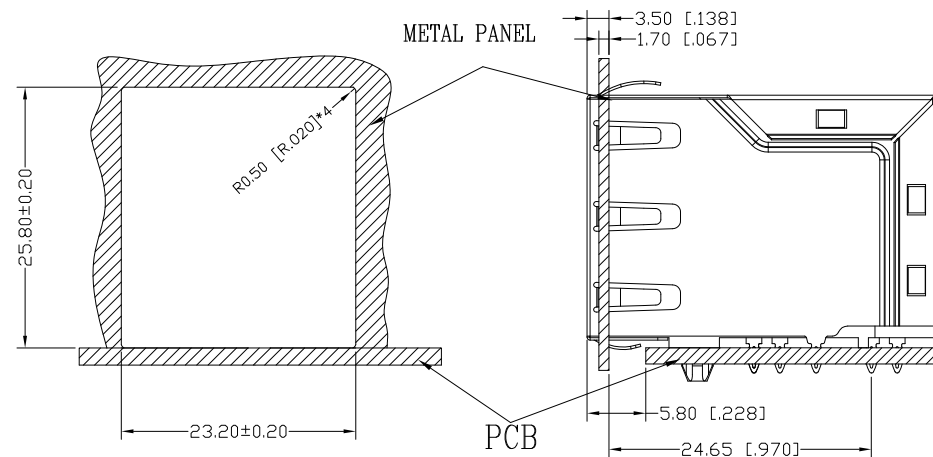
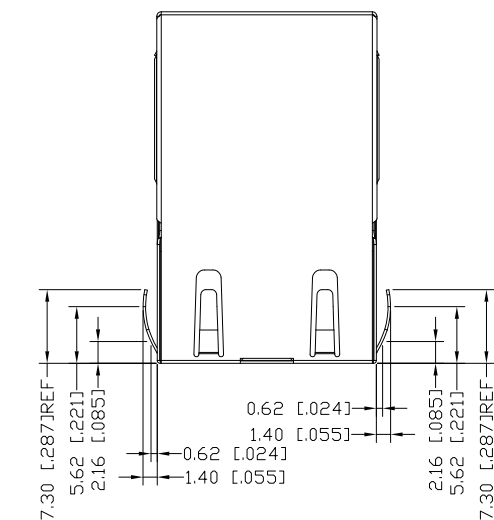
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.XX ±0.25 [.010]	.XX ° ±1°	N/A	PART NO.(INTENDED USE)	TITLE:
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			CHKD: SUNWENQUN	
			DR:	
				SCALE SHEET REV.
			N/A	2/5 D



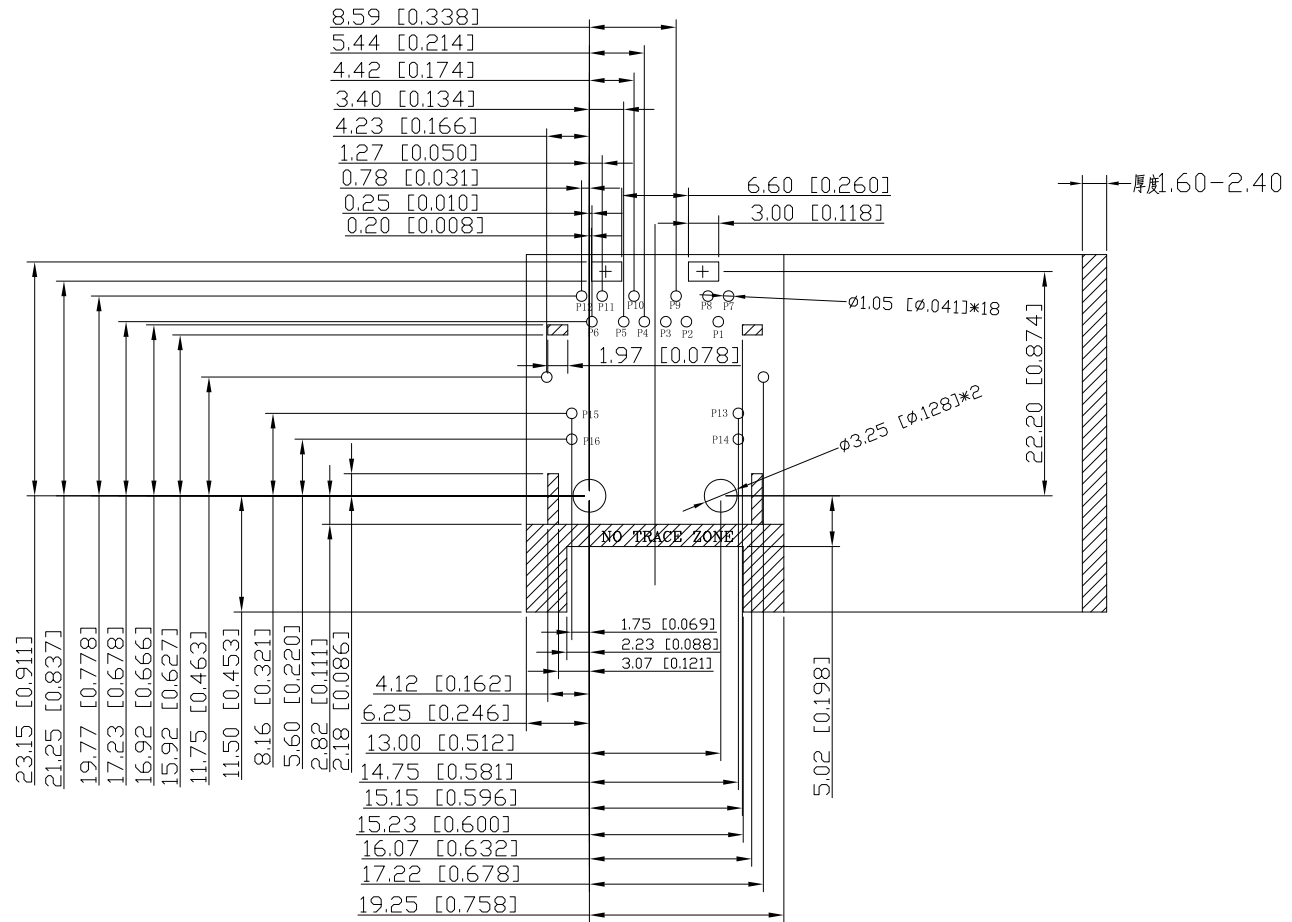
FINAL OUTLINE

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		
.XX	±0.25 [.010]	.XX° ± 1°	FINISH N/A	PART NO.<INTENDED USE>	TITLE:	
.XXX	±0.10 [.004]	.XXX° ± 1°		JDDU14730004	RJ45 CONNECT W/TRANSFORMER, 1X1,W/LED,2.5G Base-T,PDE++	
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			CHKD: SUNWENQUN			
			DR: _____			
				SCALE	SHEET	REV.
				N/A	3/5	D

SEE SHEET 1/5



X.	± 0.50 [.020]	X ° $\pm 1^\circ$	UNITS mm [INCH]	NAME(INTENDED USE)	 YI HUA COMMUNICATED CONNECTOR CO., LTD.			
X	± 0.35 [.014]	X ° $\pm 1^\circ$	MAT'L	CUSTOMER				
XX	± 0.25 [.010]	XX ° $\pm 1^\circ$	N/A	PART NO.(INTENDED USE)	TITLE:			
XXX	± 0.10 [.004]	XXX ° $\pm 1^\circ$	FINISH	JDDU14730004	RJ45 CONNECT W/TRANSFORMER, 1X1,W/LED,2.5G Base-T,PoE++			
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			Q'TY	CHKD: SUNWENQUN		SCALE	SHEET	REV.
			N/A	DR: _____		N/A	4/5	D



RECOMMENDED PCB LAYOUT
(VIEWED FROM COMPONENT 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: RJ45 CONNECT W/TRANSFORMER, 1X1,W/LED,2.5G Base-T,PDE++			
.XXX	±0.03 [.001]	.XXX° ±1°	FINISH	JDDU14730004				
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			Q'TY	CHKD: SUNWENQUN				
			N/A	DR: _____				
						SCALE	SHEET	REV.
						N/A	5/5	D