

REV.	Change Content	Date
A	Initial Release	DCT.13.2018
B	Updated content	DCT.31.2018

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.
RoHS 	

3. ELECTRICAL CHARACTERISTICS:

- 3-1. VOLTAGE RATING: 48 VDC MAXIMUM
3-2. INSULATION RESISTANCE: 500 MEGAOHMS MINIMUM
3-3. DIELECTRIC WITHSTANDING VOLTAGE: 2250 VDC CONTACT TO SHIELD

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: 10 POUNDS 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. PA66, BLACK
5-2. CONTACT BASE MATERIAL: PHOSPHOR BRONZE
5-3. CONTACT UNDERPLATE: 50-90 MICROINCHES DUCTILE NICKEL
5-4. CONTACT PLATING: GOLD, 30 MICROINCHES MIN IN CONTACT AREA
5-5. CONTACT STRUCTURE: SECONDARY BEND
5-6. SIGNAL SOLDER PINS: TIN PLATED
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.

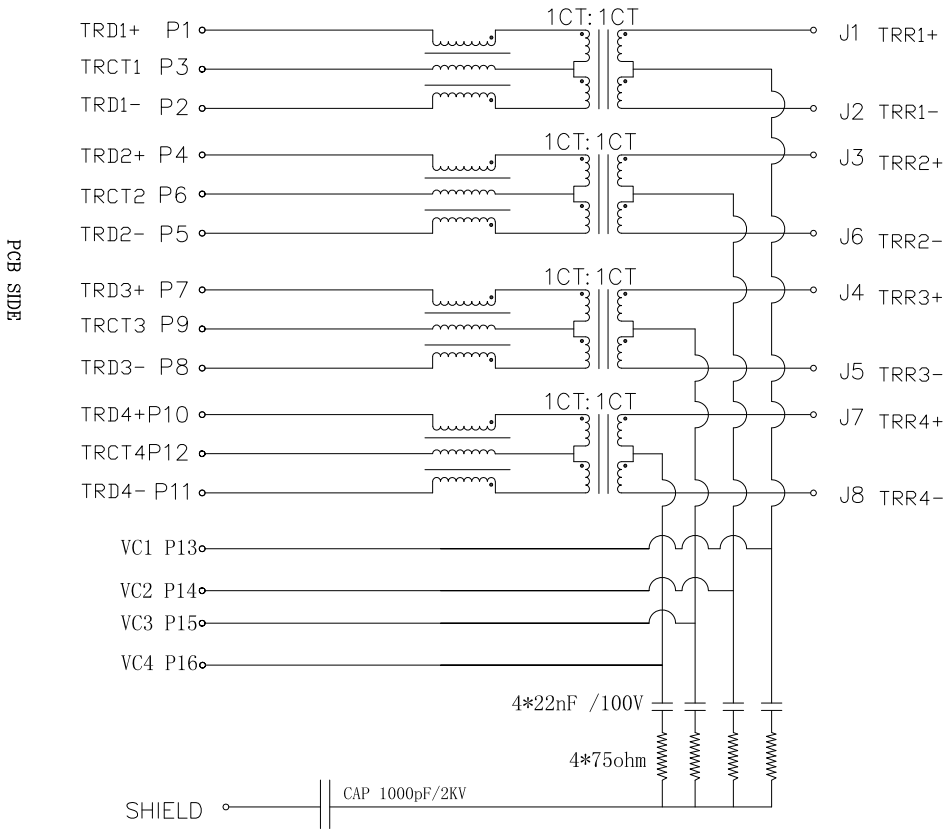
10. MAXIMUM SMT LED HEIGHT SHOULD NOT EXCEED 1.1mm.

11. FOR ASSEMBLY, THE MINIMUM SIZE OF TWO ADJACENT CONNECTORS IS 1.2 MILLIMETERS

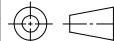
X.	±0.50 [.020]	X . ° ± 1°	UNITS mm [INCH]	NAME (INTENDED USE)	CZT YI HUA COMMUNICATED CONNECTOR CO., LTD.
.X	±0.35 [.014]	.X ° ± 1°	MAT'L	CUSTOMER	
.XX	±0.25 [.010]	.XX ° ± 1°	N/A	PART NO. (INTENDED USE)	TITLE: RJ45 CONNECT W/TRANSFORMER, 2X6, W/D LED, 10G Base-T, PDE
.XXX	±0.10 [.004]	.XXX ° ± 1°	FINISH	JDT261080200	
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
					B

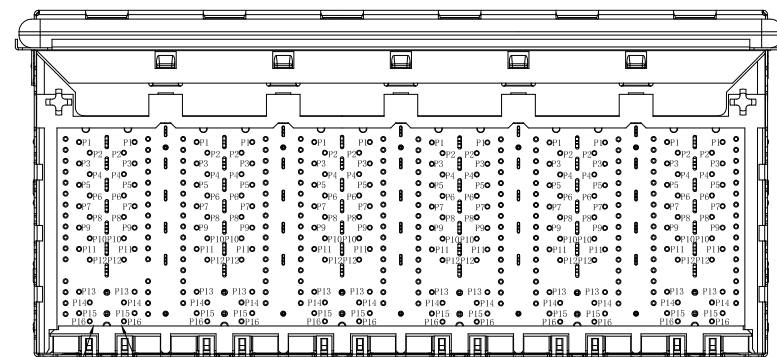
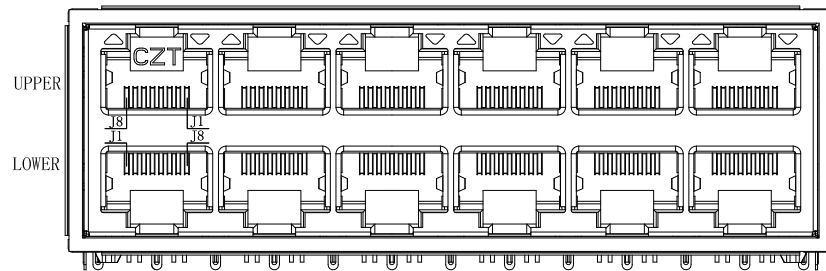
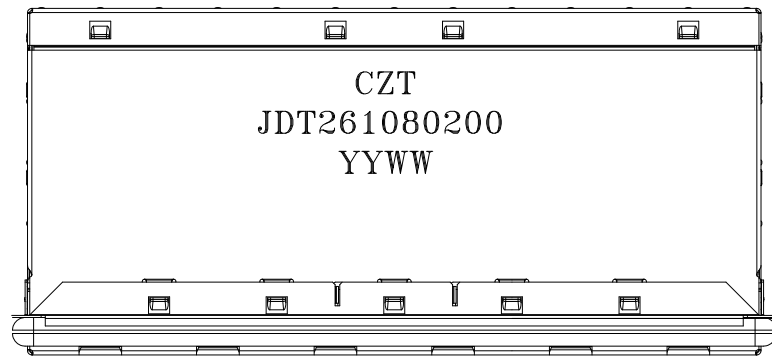
ELECTRICAL CHARACTERISTICS AT +25°C UNLESS OTHERWISE SPECIFIED
(FOR REFERENCE ONLY. USED FOR CUSTOMER INFORMATION.)

PARAMETER	SPECIFICATIONS		
TURN'S RATIO	1.00 ± 2%		
POLARITY	PER SCHEMATIC		
INSERTION LOSS	100 KHz	1-400 MHz	
	-3.0 dB MAX	-2.0 dB MAX (-1.4dB TYP)	
RETURN LOSS (Z OUT=100 OHM ±1%)	1-100 MHz	100 MHz-500 MHz	
	-22 dB MIN	-22 + 20.75*LOG(f/100)	
INDUCTANCE (OCL)	180uH Min.@100KHz		
CROSSTALK, ADJACENT CHANNELS	1-100 MHz	100-500 MHz	
	-28 dB MIN	-19 dB MIN	
COMMON MODE REJECTION RATIO	1-40 MHz	40-100 MHz	100-500 MHz
	-30 dB MIN	-28 dB MIN	-26 dB MIN
COMMON TO DIFFERENTIAL MODE REJECTION (CDMR)	1-250 MHz	250-500 MHz	
	-30 dB MIN	-22 dB MIN	
DC CURRENT CARRING CAPABILITY	900mA MAX. @57VDC CONTINUDUS		
INPUT – OUTPUT ISOLATION	2250 VDC MIN @ 60 SECONDS		

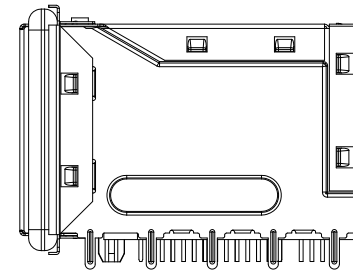


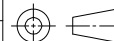
SCHEMATIC (EACH PORT)

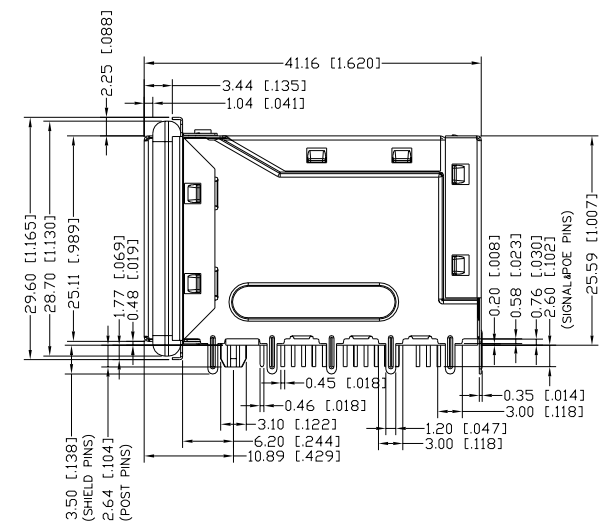
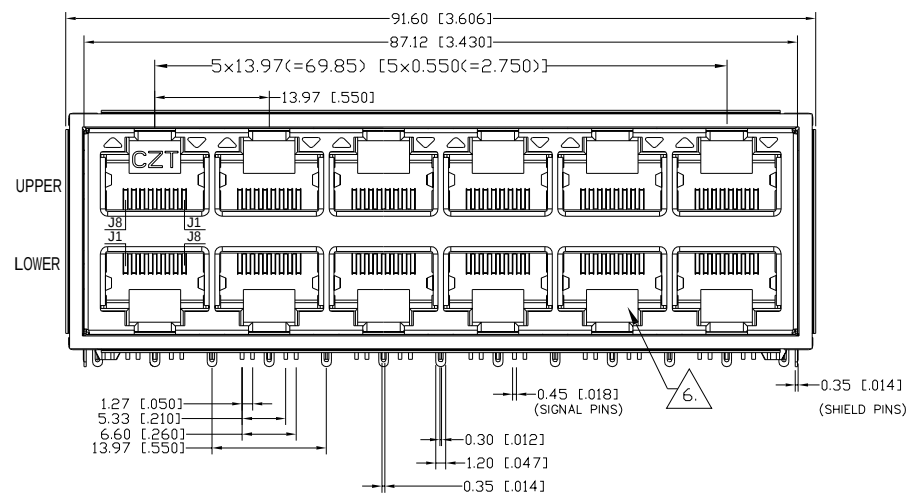
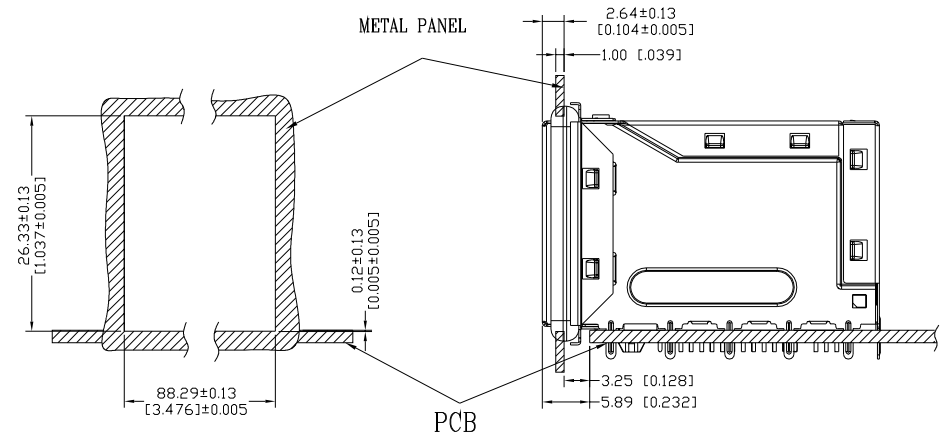
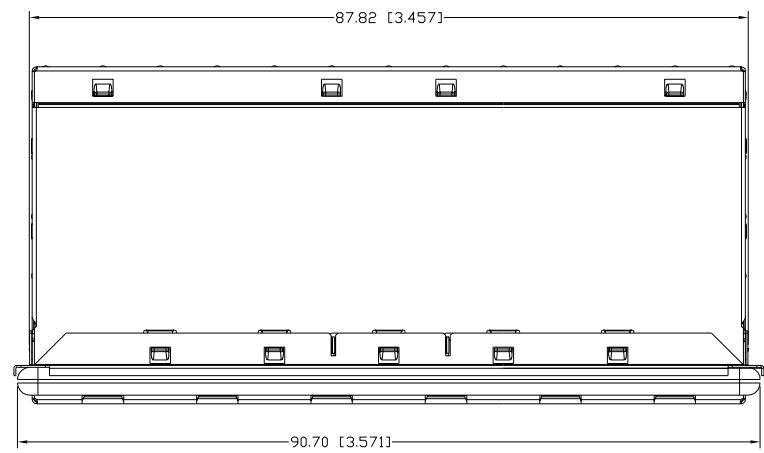
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.XX	±0.25 [.010]	.XX° ± 1°	N/A	PART NO.<INTENDED USE>	TITLE: RJ45 CONNECT W/TRANSFORMER, 2X6,W/D LED,10G Base-T,PDE
.XXX	±0.10 [.004]	.XXX° ± 1°	FINISH	JDT261080200	
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				Q'TY	CHKD: SUNWENQUN
				N/A	DR: _____
					
					SCALE SHEET REV. N/A 2/5 B

For Lower Row
RJ45 PortsFor Upper Row
RJ45 Ports

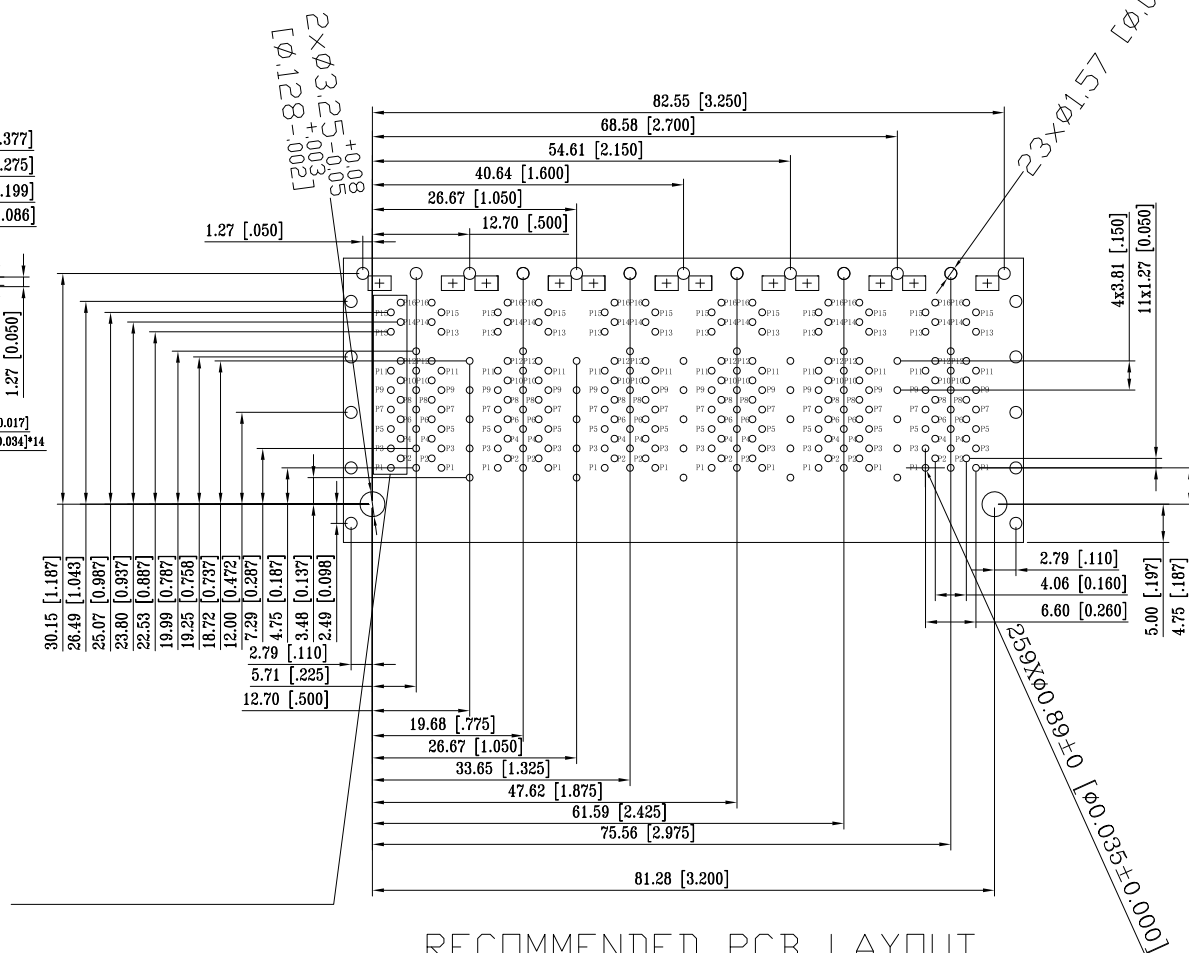
FINAL OUTLINE



X.	±0.50 [.020]	X ° ± 1°	UNITS mm [INCH]	NAME<INTENDED USE> CUSTOMER	CZT YI HUA COMMUNICATED CONNECTOR CO., LTD.			
.X	±0.35 [.014]	.X ° ± 1°	MAT'L N/A	PART NO.<INTENDED USE> JDT261080200				
.XX	±0.25 [.010]	.XX ° ± 1°	FINISH N/A	APPD: TOPUP.LIU	TITLE: RJ45 CONNECT W/TRANSFORMER, 2X6,W/D LED,10G Base-T,PDE			
.XXX	±0.10 [.004]	.XXX ° ± 1°	Q'TY N/A	CHKD: SUNWENQUN	DWG NO.:			
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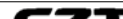
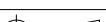


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X	±0.35 [.014]	X ° ± 1°	MAT'L	CUSTOMER	
XX	±0.25 [.010]	XX ° ± 1°	N/A	PART NO.(INTENDED USE)	JDT261080200 APPD: TOPUP.LIU
XXX	±0.10 [.004]	XXX ° ± 1°	FINISH	CHKD: SUNWENQUN	
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				N/A	
					SCALE SHEET REV.
					N/A 4/5 B



RECOMMENDED PCB LAYOUT
(VIEWED FROM COMPONENT SIDE)

VC3 P15		VC4 P16
		VC2 P14
VC1 P13		
		
TRD4- 11		TRCT4 P12
		
TRCT3 P9		TRD4+ P10
		
TRD3+ P7		TRD3- P8
		
TRD2- P5		TRCT2 P6
		
TRCT1 P3		TRD2+ P4
		
TRD1+ P1		TRD1- P2

X.	± 0.25 [.010]	X. ° $\pm 1^\circ$	UNITS $\frac{\text{mm}}{[\text{INCH}]}$	NAME(INTENDED USE)	 YI HUA COMMUNICATED CONNECTOR CO., LTD.			
.X	± 0.10 [.004]	.X ° $\pm 1^\circ$	MAT'L	CUSTOMER				
.XX	± 0.05 [.002]	.XX ° $\pm 1^\circ$	N/A	PART NO.(INTENDED USE)	TITLE:			
.XXX	± 0.03 [.001]	.XXX ° $\pm 1^\circ$	FINISH	JDT261080200	RJ45 CONNECT W/TRANSFORMER, 2X6,W/D LED,10G Base-T,PDE			
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			Q'TY	CHKD: SUNWENQUN		SCALE	SHEET	REV.
			N/A	DR: _____		N/A	5/5	B