

REV.	Change Content	Date
A	Initial Release	JUN.12.2017
B	Change The appearance	JUL.06.2017
C	Updated content	FBE.01.2018
D	Change TheCONTACT PLATING	JUN.07.2018
E	Change The appearance	NOV.08.2018

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:

2.

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

3. ELECTRICAL CHARACTERISTICS:

- 3-1. VOLTAGE RATING: 48 VDC MAXIMUM
- 3-2. INSULATION RESISTANCE: 500 MEGAOHMS MINIMUM

4. MECHANICAL

- 4-1. MATING FORCE: 5 POUNDS MAXIMUM WITH LATCH
DEPRESSEDAT AN ADVANTAGEDOUS ANGLE
UNMATING FORCE: 5 POUNDS MAXIMUM WITH LATCH
DEPRESSEDAT AN ADVANTAGEDOUS ANGLE
PLUG RETENTION FORCE: 10 POUNDS MINIMUM
- 4-2. DURABILITY (MATING/UNMATING): 750CYCLES
- 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

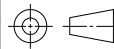
- 5-1. HOUSING: THERMOPLASTIC UL 94V-0. BLACK
- 5-2. CONTACT BASE MATERIAL: PHOSPHOR BRONZE
- 5-3. CONTACT UNDERPLATE: 50-90 MICROINCHES DUCTILE NICKEL
- 5-4. CONTACT PLATING: GOLD,30 MICROINCHS MIN IN CONTACT AREA
- 5-5. CONTACT STRUCTURE: SECONDARY BEND
- 5-6. SOLDER TAIL PLATING MATERIAL: 100-200 MICROINCHS MATTE TIN MIN OVER 50 MICROINCHS NICKEL, MATTE FINISH
- 5-7. METAL SHIELD: 50-100 MICROINCHES NICKEL PLATING ON COPPER ALLOY
- 5-8. SHIELD PIN: SOLDER WITH MATTE TIN

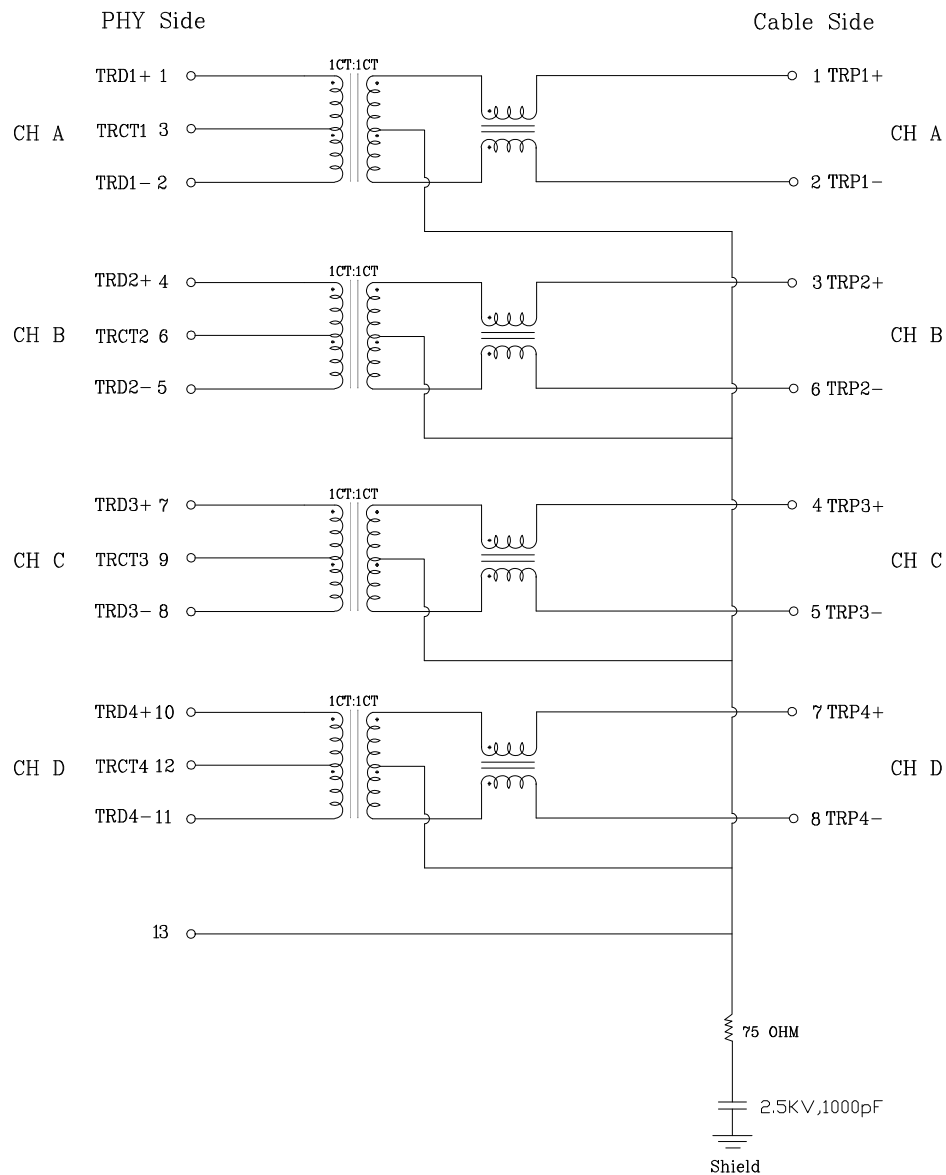
6. JACK CAVITY CONFORMS TO FCC RULES AND REGULATIONS PART 68 SUBPART F

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 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, 1X2,W/O LED,5G Base-T
.XXX	±0.10 [.004]	.XXX ° ± 1°	FINISH	JDGU21050000	
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.				APPD: TOPUP.LIU	DWG NO.:
				CHKD: SUNWENQUN	
				Q'TY N/A	
				DR: _____	
					SCALE N/A SHEET 1/5 REV. E



ELECTRICAL CHARACTERISTICS AT +25°C UNLESS OTHERWISE SPECIFIED
(FOR REFERENCE ONLY. USED FOR CUSTOMER INFORMATION.)
MEETS IEEE 802.3 SPECIFICATION

1.Insertion Loss:

1-40 MHz -0.8dB MAX.
40-125 MHz -1.2dB MAX.
125-250 MHz -3.0dB MAX.

2.Return Loss:

1-40 MHz -16dB MIN.
40-250 MHz -(16-10Log(f/40))dB MIN.

3.Common Mode Rejection:

1-250 MHz -20dB MIN.

4.CM to DM Rejection on Cable Side:

1-30 MHz -38dB MIN.
30-100 MHz -30dB MIN.
100-250 MHz -20dB MIN.

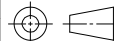
5.Isolation: @1mA

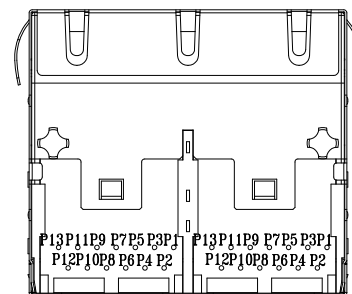
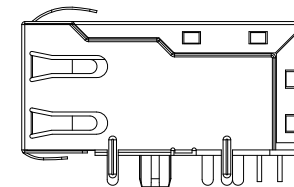
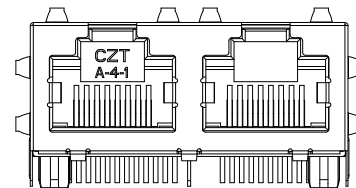
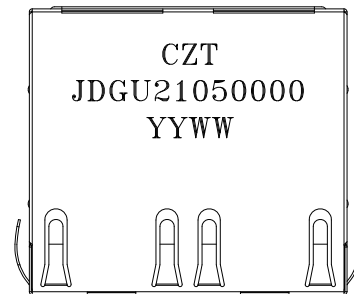
Cable Side to Shield: 2250VDC, 60sec

6. Inductance: @100KHz,0.1Vrms, 8mA DC Bias
120uH MIN.

7.Turns Ratio: @100KHz

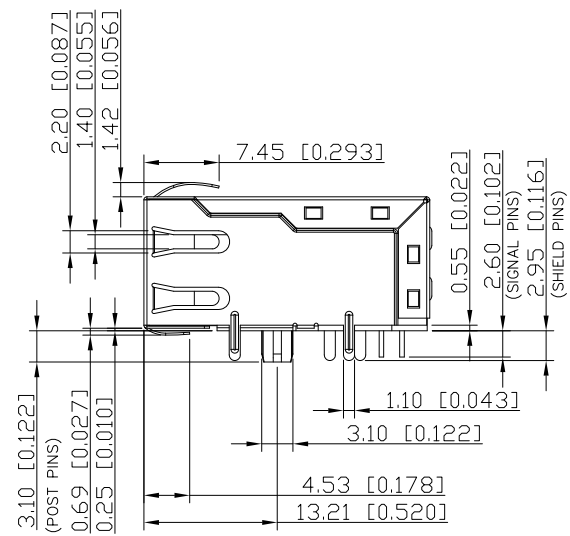
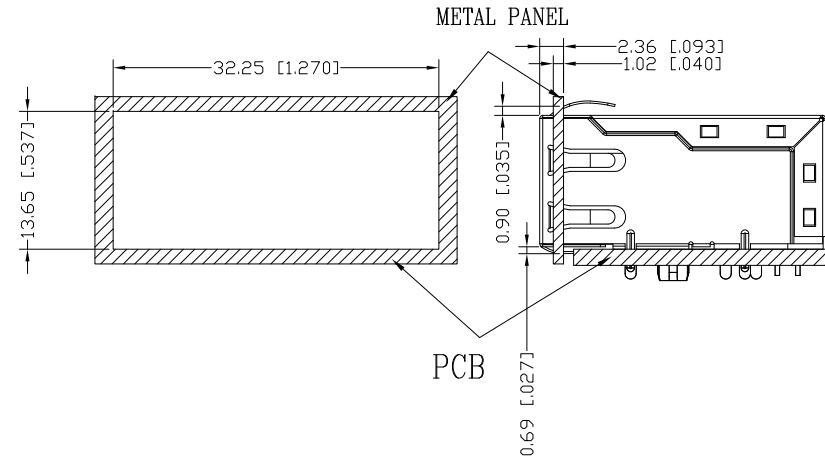
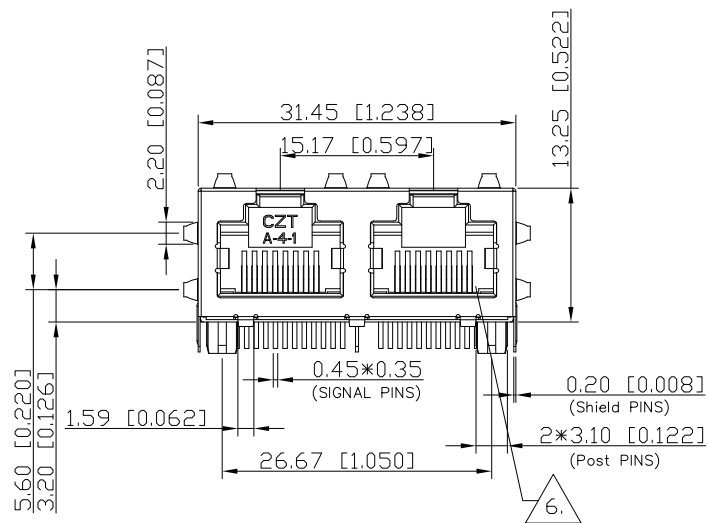
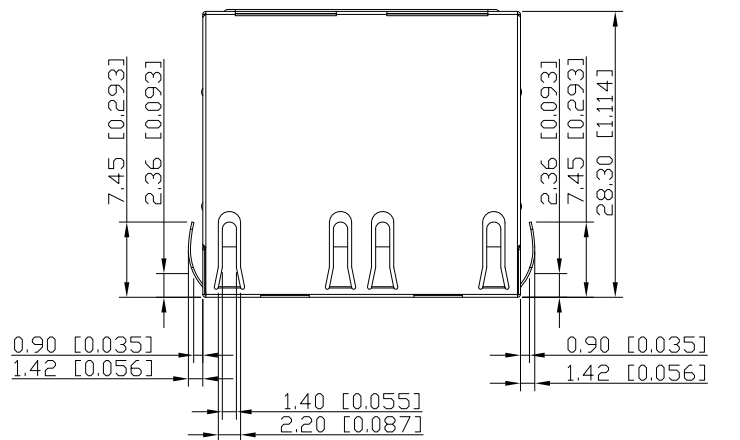
CH A=1CT:1CT±2%
CH B=1CT:1CT±2%
CH C=1CT:1CT±2%
CH D=1CT:1CT±2%

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			N/A	CHKD: SUNWENQUN	
				DR: _____	
					SCALE
					SHEET
					REV.
					N/A
					2/5
					E

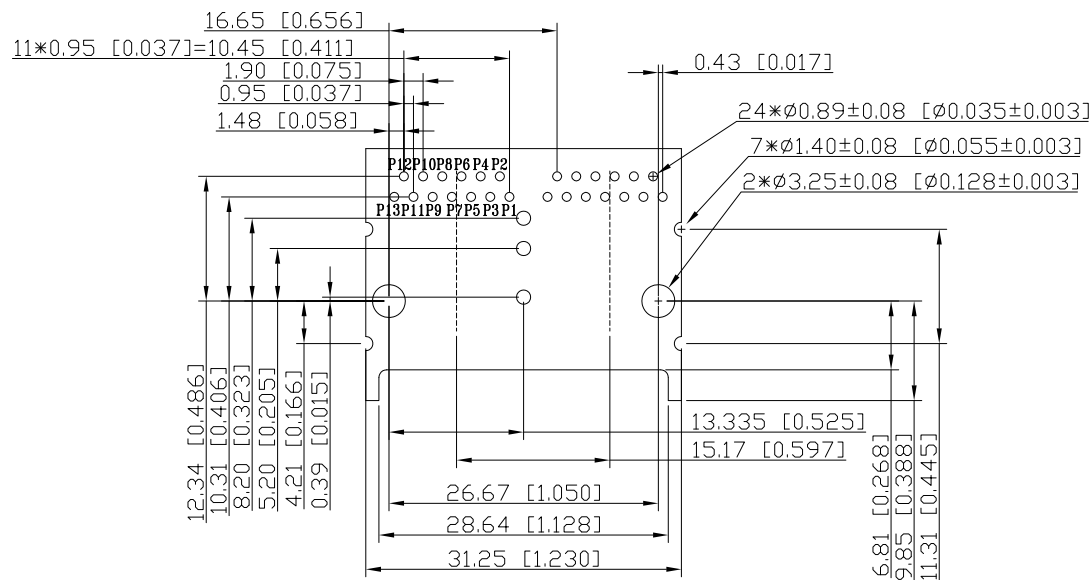
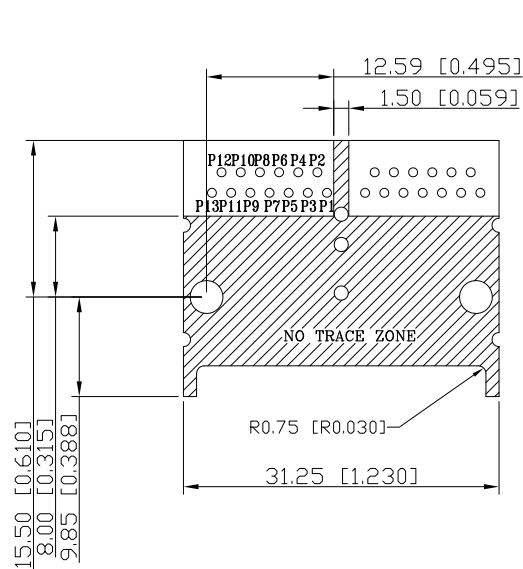


FINAL OUTLINE

X.	±0.50 [.020]	X . ° ± 1°	UNITS mm [INCH]	NAME<INTENDED USE>	CZT YI HUA COMMUNICATED CONNECTOR CO., LTD.	
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				CHKD: SUNWENQUN		
				Q'TY	N/A	DR: _____
				SCALE	SHEET	REV.
				N/A	3/5	E



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, 1X2,W/O LED,5G Base-T
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				Q'TY	
				N/A	
				DR: _____	
					SCALE N/A
					SHEET 4/5
					REV. E



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 N/A	CUSTOMER							
.XX	±0.05 [.002]	.XX° ± 1°	FINISH N/A	PART NO. (INTENDED USE)	TITLE: RJ45 CONNECT W/TRANSFORMER, 1X2,W/O LED,5G Base-T						
.XXX	±0.03 [.001]	.XXX° ± 1°		JDGU21050000							
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.				APPD: TOPUP.LIU	DWG NO.:						
				CHKD: SUNWENQUN							
Q'TY N/A				DR: _____	  <table><tr><td>SCALE</td><td>SHEET</td><td>REV.</td></tr><tr><td>N/A</td><td>5/5</td><td>E</td></tr></table>	SCALE	SHEET	REV.	N/A	5/5	E
				SCALE	SHEET	REV.					
N/A	5/5	E									