

REV.	Change Content	Date
A	Initial Release	NOV.15.2017
B	Change The Circuit Schematic	NOV.16.2017
C	Change The SIGNAL PINS 2.10mm to 3.18mm	MAR.21.2018

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. CURRENT RATING: 0.1 AMPERES MAXIMUM
- 3-2. VOLTAGE RATING: 48 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: 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. PA10T OR BETTER, 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. 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.

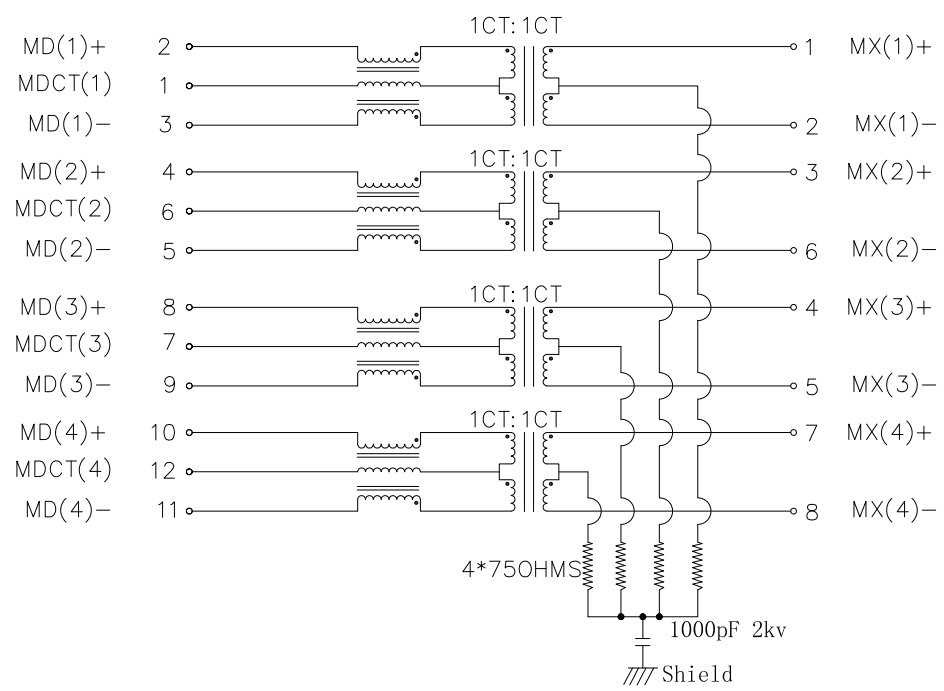
10. MAXIMUM SMT LED HEIGHT SHOULD NOT EXCEED 1.1mm.

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	TITLE: RJ45 CONNECT W/TRANSFORMER, 1X2, W/O LED, 1000Base-T			
.XX	±0.25 [.010]	.XX ° ±1°	N/A	PART NO. (INTENDED USE)				
.XXX	±0.10 [.004]	.XXX ° ±1°	FINISH	JDGU24380000	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.			N/A	Q'TY				
			N/A	CHKD: SUNWENQUN	 	SCALE	SHEET	REV.
			N/A	DR: CHENLINGJUAN				
						N/A	1/5	C

A
B
C
D
E

PCB SIDE

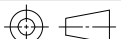
CABLE SIDE

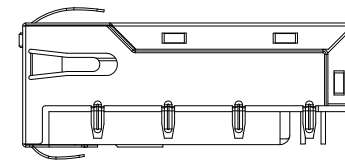
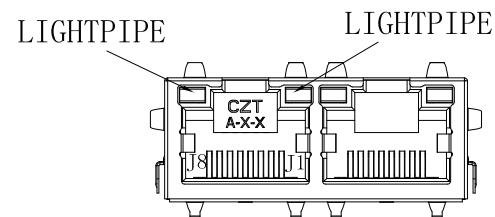
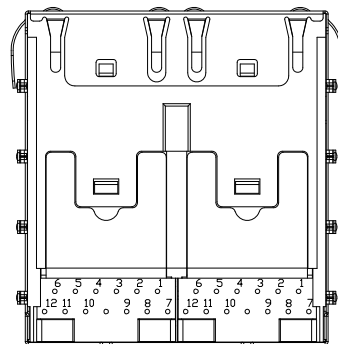
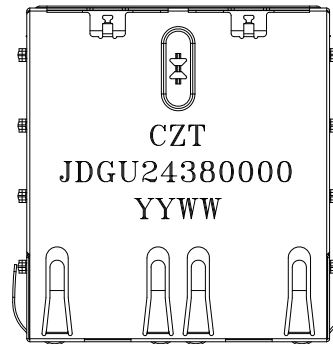


SCHEMATIC (EACH PORT)

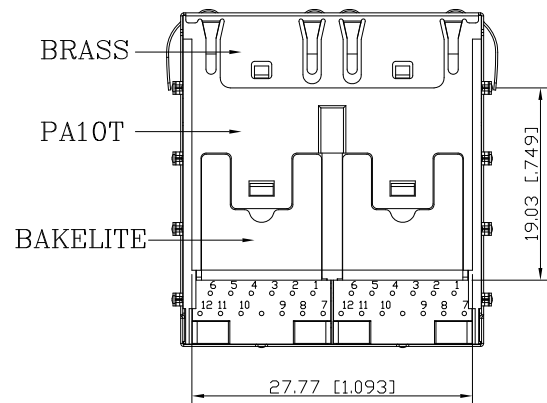
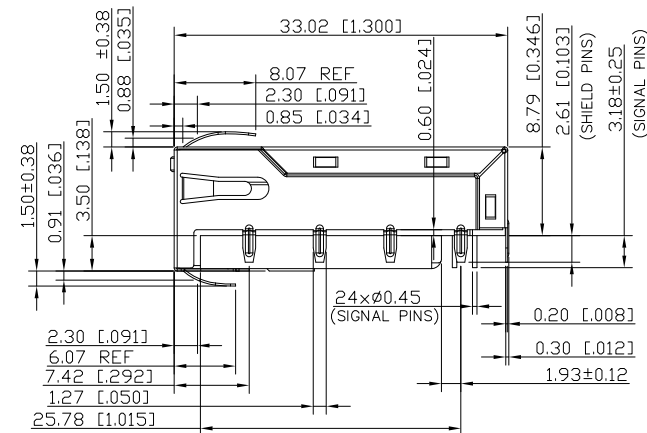
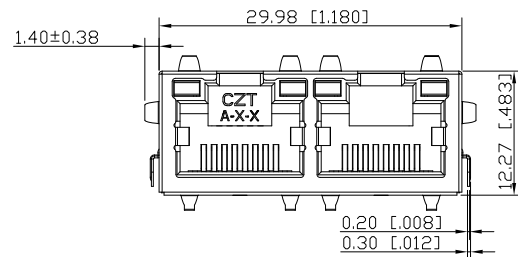
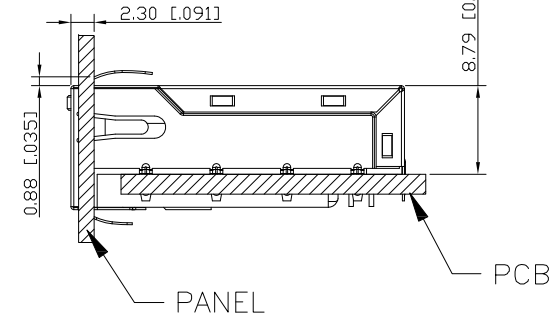
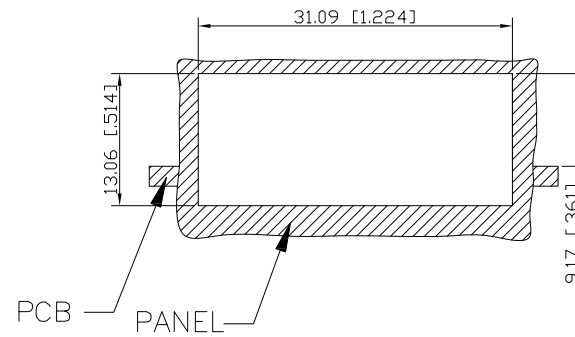
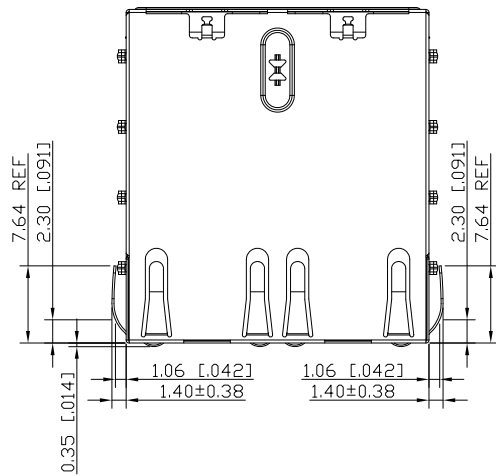
SEE SHEET 1/5
ELECTRICAL CHARACTERISTICS AT +25°C UNLESS OTHERWISE SPECIFIED
(FOR REFERENCE ONLY. USED FOR CUSTOMER INFORMATION.)

PARAMETER	SPECIFICATIONS			
URNS RATIO	1.00 ± 2%			
POLARITY	PER SCHEMATIC			
INSERTION LOSS	1-100MHz			
	-1.2 dB MAX			
RETURN LOSS Z OUT=100 OHM ±15%	1-40 MHz	40-60 MHz	60-80 MHz	80-100 MHz
	-18 dB MIN	-14 dB MIN	-12 dB MIN	-10 dB MIN
INDUCTANCE (OCL) MEDIA SIDE, 0°C-70°C	350 uH MIN (MEASURED AT 100 KHz, 100 mVRMS AND WITH 8 mA DC BIAS)			
CROSSTALK, ADJACENT CHANNELS	1-100 MHz			
	-30 dB MIN			
COMMON MODE REJECTION RATIO	1- 100 MHZ			
	-30 dB MIN			
INPUT - OUTPUT ISOLATION	2250 VDC MINIMUM FOR 60 SECONDS			
WORKING VOLTAGE	BELOW 24 VOLTAGES			

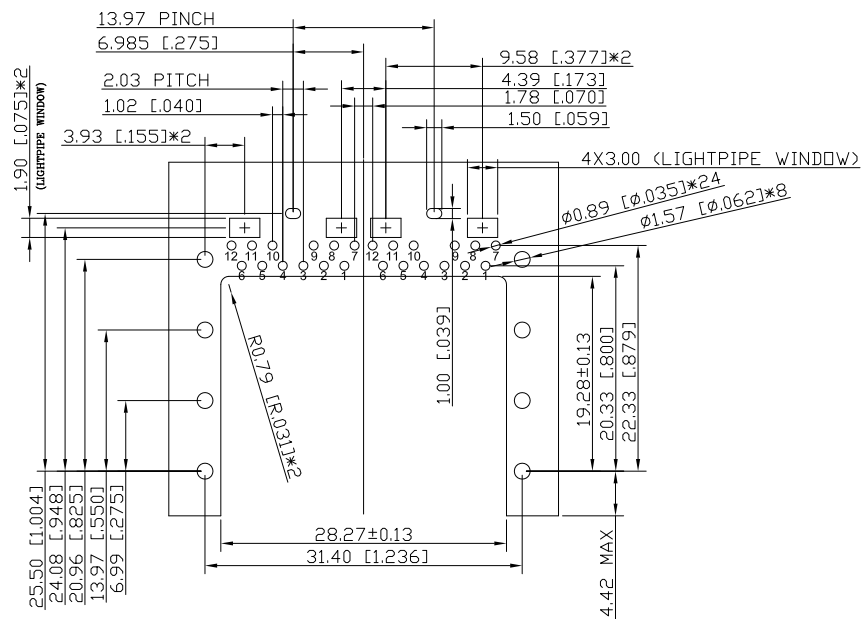
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.X	±0.35 [.014]	.X ° ± 1°	MAT'L N/A			PART NO.<INTENDED USE> JDGU24380000		
.XX	±0.25 [.010]	.XX° ± 1°	FINISH N/A	APPD: TOPUP.LIU	TITLE: RJ45 CONNECT W/TRANSFORMER, 1X2,W/D LED,1000Base-T			
.XXX	±0.10 [.004]	.XXX° ± 1°		Q'TY N/A	DWG NO.:			
THESE 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.				CHKD: SUNWENQUN		SCALE N/A	SHEET 2/5	REV. C
				DR: CHENLINGJUAN				



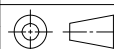
X.	±0.50 [.020]	X . ° ± 1°	UNITS mm [INCH]	NAME<INTENDED USE>	CZT YI HUA COMMUNICATED CONNECTOR CO., LTD.			
.X	±0.35 [.014]	.X . ° ± 1°	MAT'L	CUSTOMER				
.XX	±0.25 [.010]	.XX ° ± 1°	N/A	PART NO.<INTENDED USE>	TITLE: RJ45 CONNECT W/TRANSFORMER, 1X2,W/O LED,1000Base-T			
.XXX	±0.10 [.004]	.XXX ° ± 1°	FINISH	JDGU24380000				
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				Q'TY				
N/A				CHKD: SUNWENQUN		SCALE	SHEET	REV.
				DR: CHENLINGJUAN			N/A	3/5



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/D LED,1000Base-T
XXX	±0.10 [.004]	XXX° ± 1°	FINISH	JDGU24380000	
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				Q'TY	
				N/A	
				CHKD: SUNWENQUN	
				DR: CHENLINGJUAN	
					SCALE
					N/A
					SHEET
					4/5
					REV.
					C



RECOMMENDED PCB LAYOUT
(VIEWED FROM COMPONENT SIDE)

X.	±0.25 [0.010]	X .° ± 1°	UNITS	mm [INCH]	NAME (INTENDED USE)	CZT YI HUA COMMUNICATED CONNECTOR CO., LTD.
.X	±0.10 [0.004]	.X .° ± 1°	MAT'L	N/A	CUSTOMER	
.XX	±0.05 [0.002]	.XX .° ± 1°	FINISH	N/A	PART NO. (INTENDED USE)	TITLE: RJ45 CONNECT W/TRANSFORMER, 1X2,W/D LED,1000Base-T
.XXX	±0.03 [0.001]	.XXX .° ± 1°	Q'TY	N/A	JDGU24380000	
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					CHKD: SUNWENQUN	 SCALE SHEET REV. N/A 5/5 C
					DR: CHENLINGJUAN	