

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: 1.5 AMPERES MAXIMUM
- 3-2. VOLTAGE RATING: 150 VAC MAXIMUM
- 3-3. INSULATION RESISTANCE: 500 MEGOHMS 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: -40 TO +85°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: 30-50 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: 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.

REV.	ECN NO.	APPD.
A	Initial Release	TOPUP.LIU
B	Updated content	TOPUP.LIU
C	Updated content	TOPUP.LIU
D	Change The 1.32 To 4.32	TOPUP.LIU

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, 2X1,W/LED,1000Base-T			
.XXX	±0.10 [.004]	.XXX ° ± 1°	FINISH	JDG210570039				
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	D

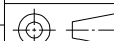
ELECTRICAL CHARACTERISTICS AT +25°C UNLESS OTHERWISE SPECIFIED
(FOR REFERENCE ONLY. USED FOR CUSTOMER INFORMATION.)

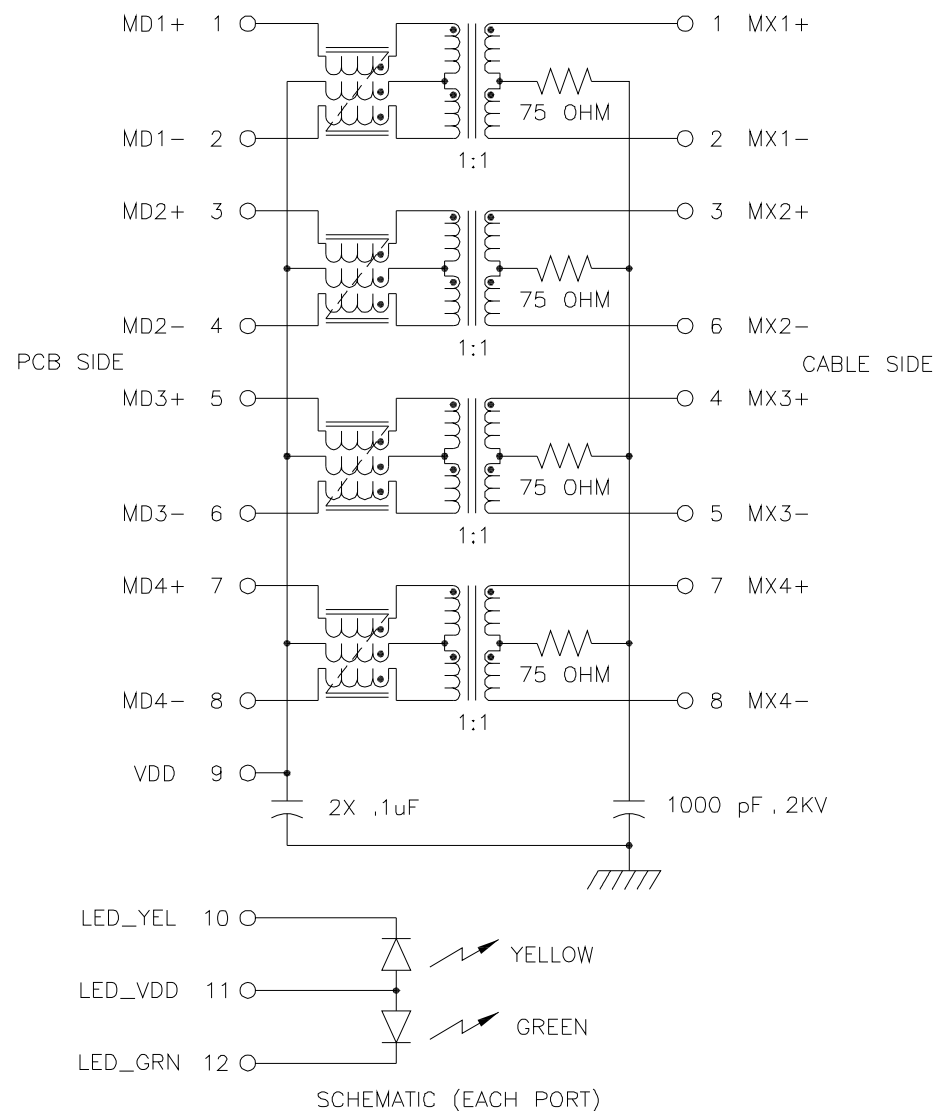
PARAMETER	SPECIFICATIONS				
URNS RATIO	1.00 ± 2%				
POLARITY	PER SCHEMATIC				
INSERTION LOSS	100 KHz	30 MHz	60 MHz	100 MHz	125 MHz
	-1.1 dB MAX	-0.8 dB MAX	-1.0 dB MAX	-1.4 dB MAX	-3.0 dB MAX
RETURN LOSS (Z OUT=100 OHM ±15%)	2 MHz	40 MHz	60 MHz	80 MHz	100 MHz
	-18.0 dB MIN	-18.0 dB MIN	-14.0 dB MIN	-12.0 dB MIN	-10.0 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 MHz	30 MHz	60 MHz	100 MHz	
	-50 dB MIN	-43 dB MIN	-37 dB MIN	-31 dB MIN	
COMMON MODE REJECTION RATIO	2 MHz	30-200 MHz			
	-50 dB MIN	-15+20*LOG ₁₀ (f/200) dB MIN			
INPUT – OUTPUT ISOLATION	2250 VDC MINIMUM FOR 60 SECONDS				
WORKING VOLTAGE	BELOW 24 VOLTAGES				

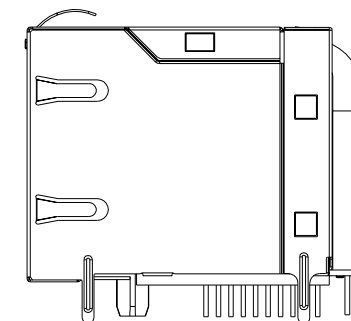
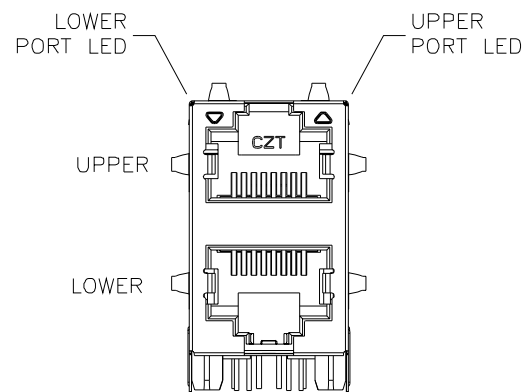
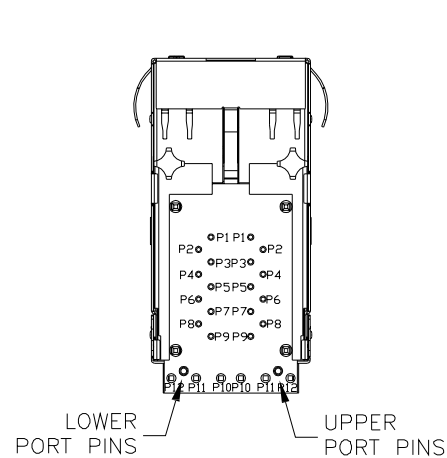
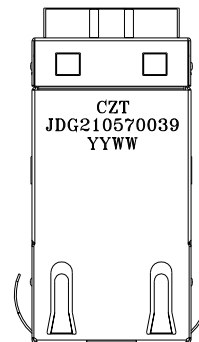
NOTE: f IS FREQUENCY IN MHZ.

EMMITTED COLOR	GREEN	YELLOW
WAVELENGTH (nm)	570 nm	590 nm
BRIGHNESS (mCD)	8.5 TYP. @ 20mA	6 TYP. @ 20mA
VIEWING ANGLE	100°	100°
POWER DISSIPATION (Pd)	85 mW MAX	85 mW MAX
FORWARD VOLTAGE (Vf)	2.2 TO 2.8 V	2.15 TO 2.8 V
REVERSE VOLTAGE (Vr)	5.0 V MAX	5.0 V MAX

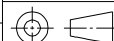
NOTE: PER VENDOR'S SPECIFICATIONS

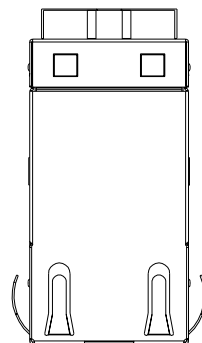
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			Q'TY	CHKD: _____		SCALE	SHEET	REV.
			N/A	DR: SUNWENQUN		N/A	2/5	D



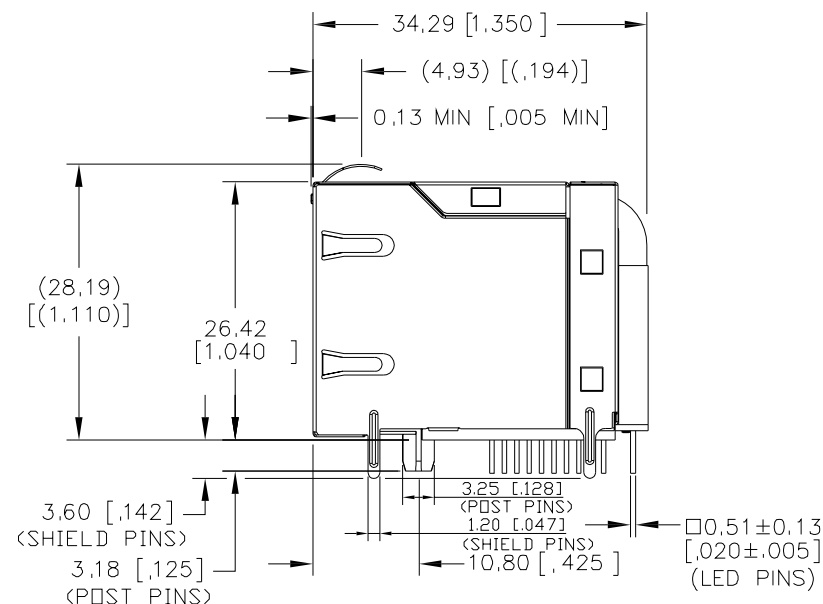
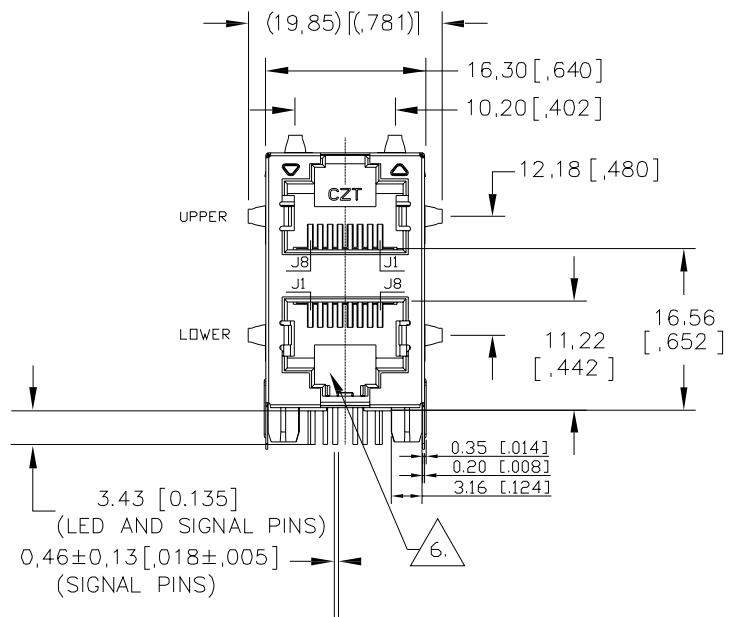
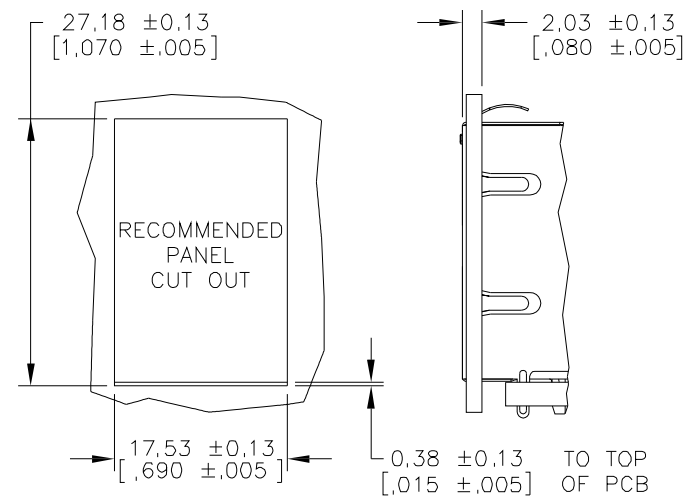


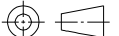
FINAL OUTLINE

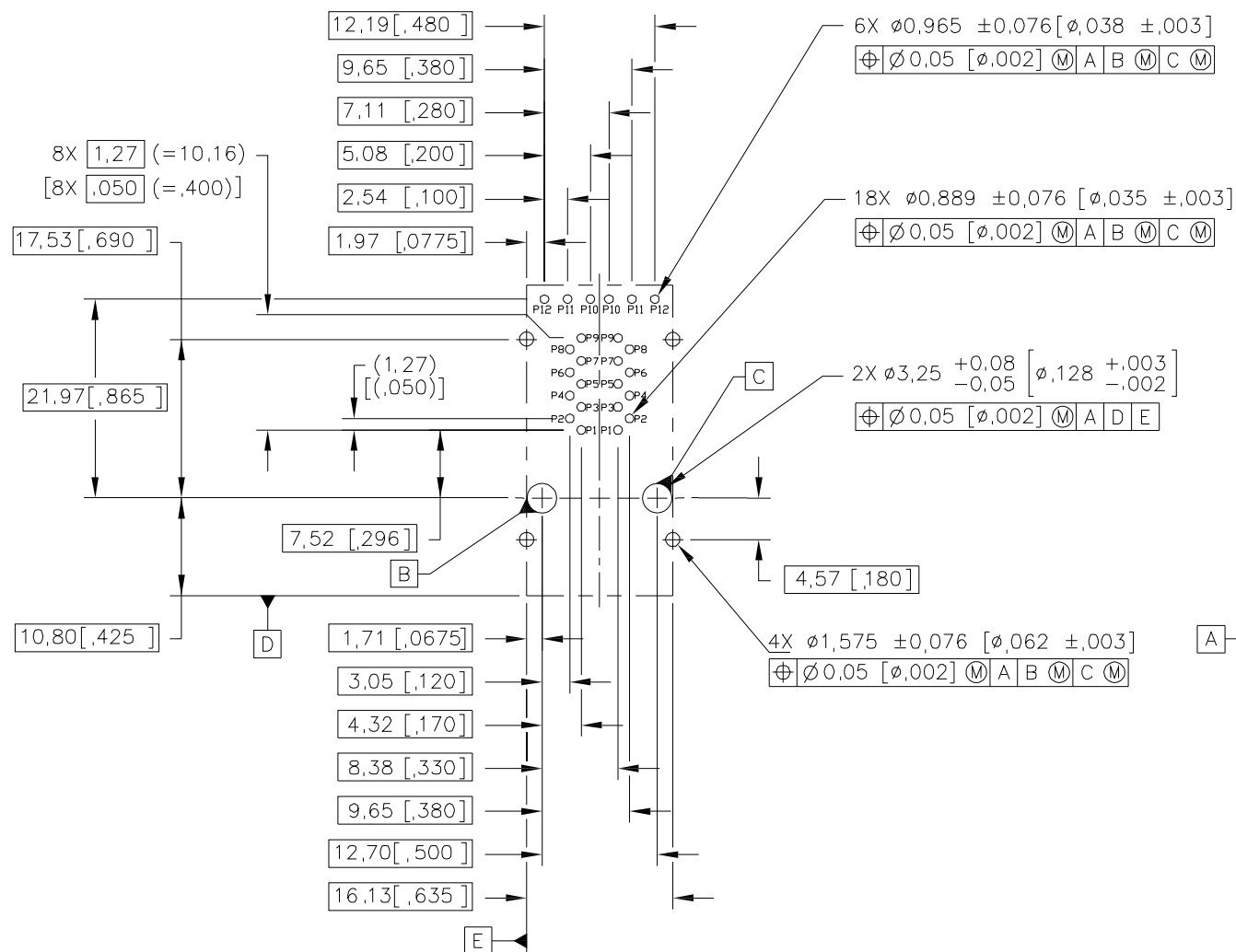
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				Q'TY	
				N/A	DR: SUNWENQUN
					SCALE SHEET REV. N/A 3/5 D



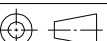
0,25
[.010]
2 SURFACES



X. ±0.50 [.020]	X . ° ±1°	UNITS mm [INCH]	NAME(INTENDED USE)	CZT YI HUA COMMUNICATED CONNECTOR CO., LTD.			
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			Q'TY	DWG NO:			
			N/A				
			CHKD: 		SCALE	SHEET	REV.
			DR: SUNWENQUN		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 N/A	CUSTOMER										
XX ±0.05 [.002]	XX° ±1°	FINISH N/A	PART NO.(INTENDED USE)	TITLE:									
XXX ±0.03 [.001]	XXX° ±1°		JDG210570039	RJ45 CONNECT W/TRANSFORMER, 2X1,W/LED,1000Base-T									
			APPD: TOPUP.LIU	DWG NO:									
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						DR: SUNWENQUN	<table><tr><td>SCALE</td><td>SHEET</td><td>REV.</td></tr><tr><td>N/A</td><td>5/5</td><td>D</td></tr></table>				SCALE	SHEET	REV.
SCALE	SHEET	REV.											
N/A	5/5	D											