

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: 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: 30 NEWTONS MAXIMUM WITH LATCH
DEPRESSED AT AN ADVANTAGEOUS ANGLE
UNMATING FORCE: 30 NEWTONS MAXIMUM WITH LATCH
DEPRESSED AT AN ADVANTAGEOUS ANGLE
PLUG RETENTION FORCE: 50 NEWTONS 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: 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

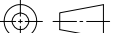
6. JACK CAVITY CONFORMS TO FCC RULES AND REGULATIONS PART 68 SUBPART F

7. PCB PLATING: EG (TOP PCB)
ENIG (BOTTOM PCB)

8. JEDEC MOISTURE: LEVEL 1.

9. REVISION: MX1, MX2, ARE PRELIMINARY.

REV.	Change Content	Date
A	Initial Release	JUN.04.2011
B	Change EMI Finger	JUL.08.2011
C	Change EMI Finger	MAR.26.2012
D	Change LED&Signal Pins to 2.50mm	JUN.04.2012
E	updated content	FEB.01.2013
F	Change LED&Signal Pins to 2.60mm	MAR.22.2013
G	Updated Content	JUL.28.2014

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: RJ45 CONNECT W/TRANSFORMER, 2X6,W/LED,1000Base-T			
.XXX	±0.10 [.004]	.XXX ° ±1°		JDG260620039				
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.:			
			Q'TY N/A	CHKD:				
						DR: SUNWENQUN	SCALE N/A	SHEET 1/5

A
B
C
D
E

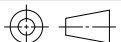
ELECTRICAL CHARACTERISTICS AT +25°C UNLESS OTHERWISE SPECIFIED
(FOR REFERENCE ONLY. USED FOR CUSTOMER INFORMATION.)

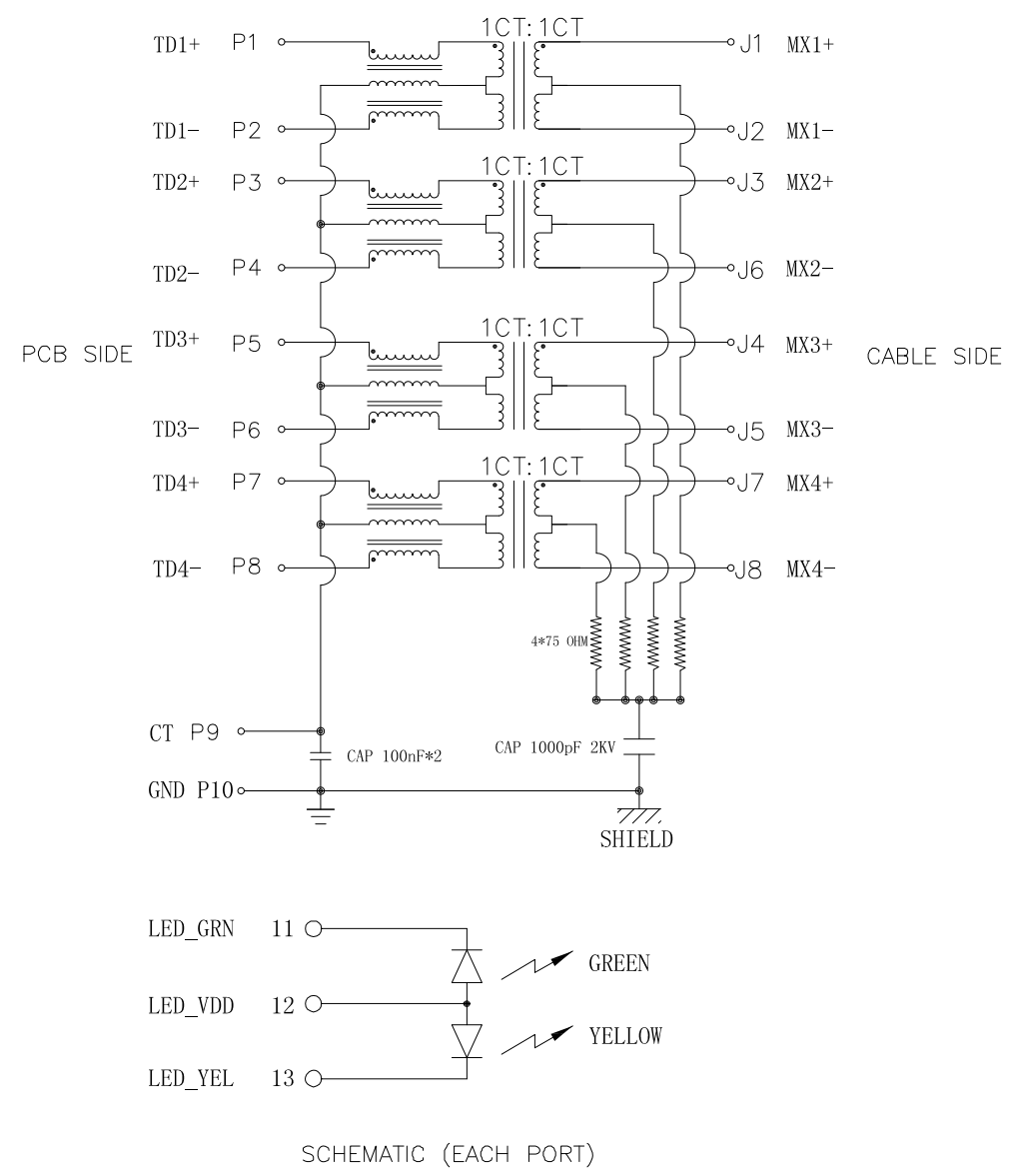
PARAMETER	SPECIFICATIONS	
URNS RATIO	1.00 ± 2%	
POLARITY	PER SCHEMATIC	
INSERTION LOSS	100 KHz	1-125 MHz
	-1.2dB MAX	-0.2-0.002*f ^{1.4} dB MAX
RETURN LOSS (Z OUT=100 OHM ±15%)	0.1-40 MHz	40-100 MHz
	-16dB MIN	-10+20*LOG ₁₀ (f/80MHz)dB MIN
INDUCTANCE (OCL) (MEDIA SIDE, 0°C-70°C)	350 uH MIN	(MEASURED AT 100 KHz, 100 mVRMS AND WITH 8 mA DC BIAS)
CROSSTALK, ADJACENT CHANNELS	1 MHz	10-100 MHz
	-50 dB MIN	-55+22*LOG ₁₀ (f/10MHz)dB MIN
COMMON MODE REJECTION RATIO	2 MHz	30-200 MHz
	-50 dB MIN	-15+20*LOG ₁₀ (f/200) dB MIN
DIFFERENTIAL MODE TO COMMON MODE ATTENUATION	10-100MHz	
	-30dB MIN	
INPUT - OUTPUT ISOLATION	2250 VDC MINIMUM FOR 60 SECONDS	

NOTE: f IS FREQUENCY IN MHZ.

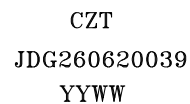
EMMITTED COLOR	GREEN	YELLOW
WAVELENGTH (nm)	570 nm	590 nm
BRIGHTHNESS (mCD)	8 TO 12TYP @ 20mA	8 TO 12TYP @ 20mA
VIEWING ANGLE	100°	100°
POWER DISSIPATION (Pd)	85 mW MAX	85 mW MAX
DC FORWARD CURRENT	150 mA MAX	150 mA MAX
REVERSE VOLTAGE (Vr)	5.0 V MAX	5.0 V MAX
FORWARD VOLTAGE (Vf)	1.8~2.6 V	1.8~2.6 V

NOTE: PER VENDOR'S SPECIFICATIONS

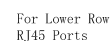
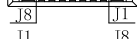
X.	±0.50 [.020]	X . ° ± 1°	UNITS mm [INCH]	NAME<INTENDED USE> CUSTOMER	CZT YI HUA COMMUNICATED CONNECTOR CO., LTD.				
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				N/A	DR: SUNWENQUN				



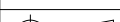
SEE SHEET 1/5

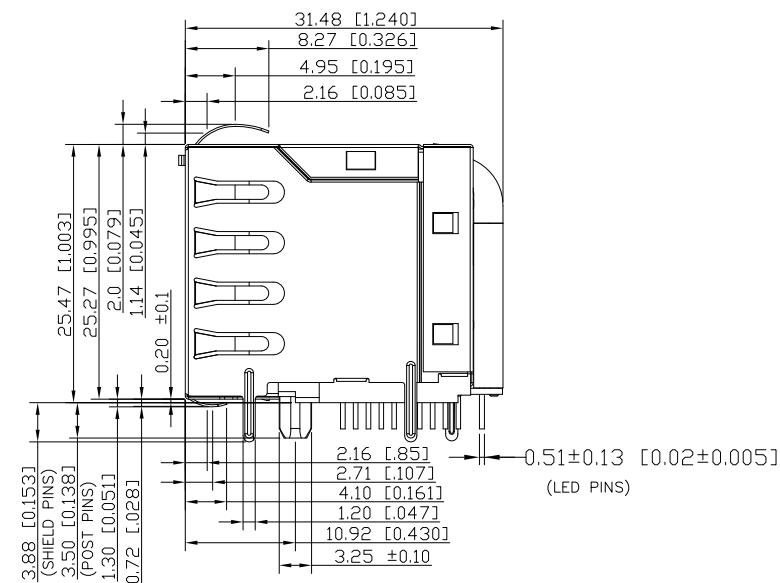
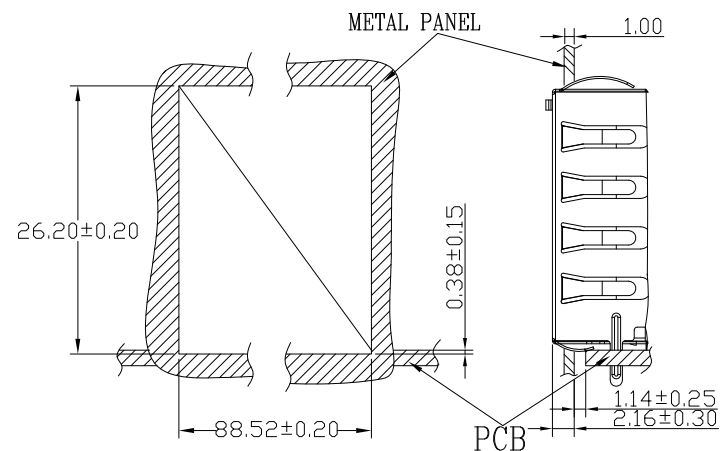
GREEN/YELLOW
LED UPPER PORT

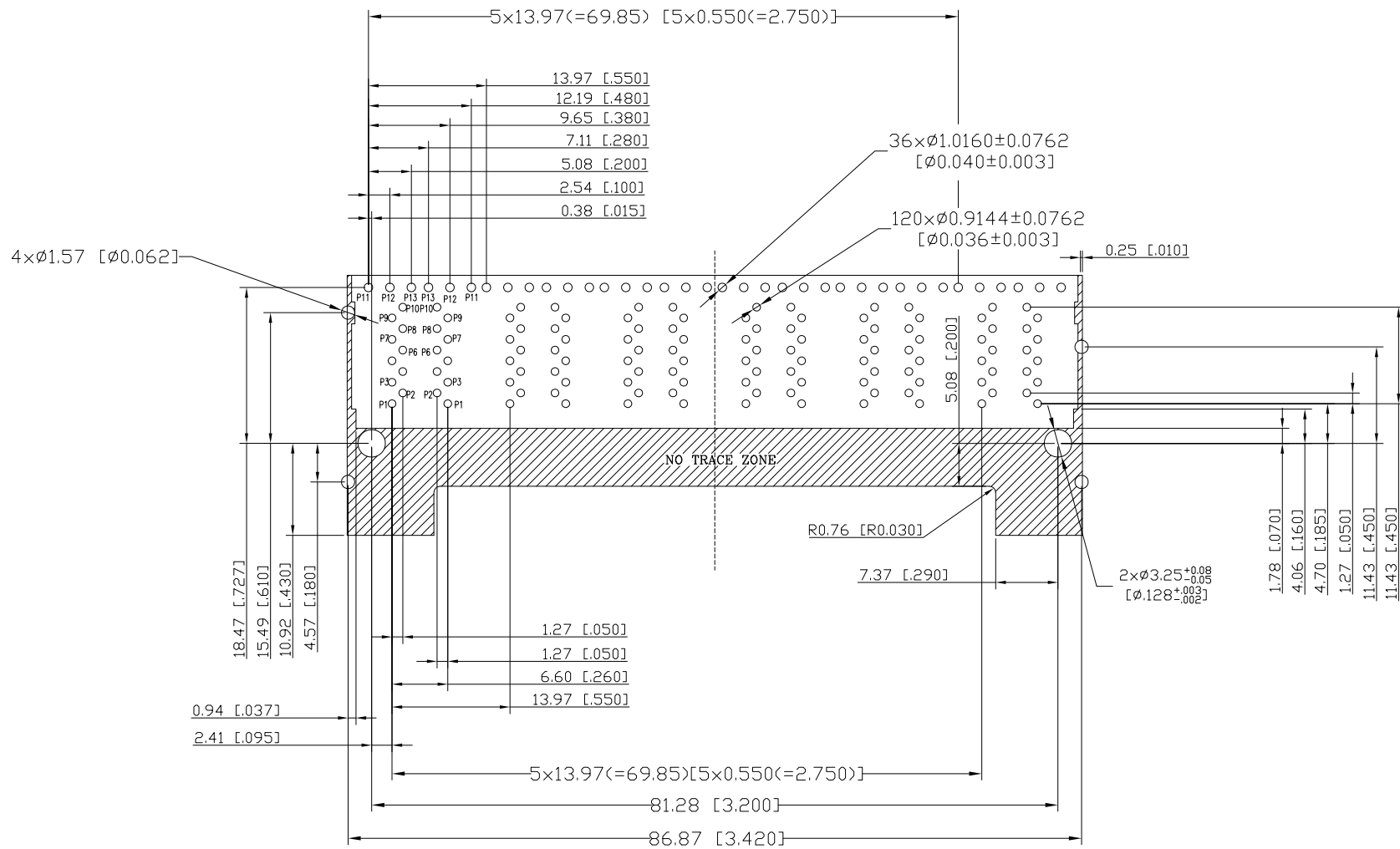
LOWER

For Upper Row
RJ45 Ports

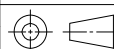
FINAL OUTLINE

X.	±0.50 [.020]	X. ° ±1°	UNITS ^{mm} [INCH]	NAME(INTENDED USE)	 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:		
.XXX	±0.10 [.004]	.XXX ° ±1°	FINISH	JDG260620039	RJ45 CONNECT W/TRANSFORMER, 2X6,W/LED,1000Base-T		
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			Q'TY	CHKD:			
			N/A	DR: SUNWENQUN		SCALE	SHEET
					N/A	3/5	G





RECOMMENDED PCB LAYOUT
(VIEWED FROM COMPONENT SIDE)

X.	± 0.25 [0.010]	X ° $\pm 1^\circ$	UNITS mm [INCH]	NAME (INTENDED USE)	CZT YI HUA COMMUNICATED CONNECTOR CO., LTD.
.X	± 0.10 [0.004]	X ° $\pm 1^\circ$	MAT'L	CUSTOMER	
.XX	± 0.05 [0.002]	.XX ° $\pm 1^\circ$	N/A	PART NO. (INTENDED USE)	TITLE: RJ45 CONNECT W/TRANSFORMER, 2X6, W/LED, 1000Base-T
.XXX	± 0.03 [0.001]	.XXX ° $\pm 1^\circ$	FINISH	JDG260620039	
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			Q'TY	CHKD: _____ DR: SUNWENQUN	
					 SCALE SHEET REV. N/A 5/5 G