

REV.	Change Content	Date
A	Initial Release	MAY.26.2014
B	Change EMI Finger	JUN.04.2014
C	Change The Appearance	JUN.09.2014

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: 840 MILLIAMPERE MAXIMUM
 3-2. VOLTAGE RATING: 57 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: 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: 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. 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

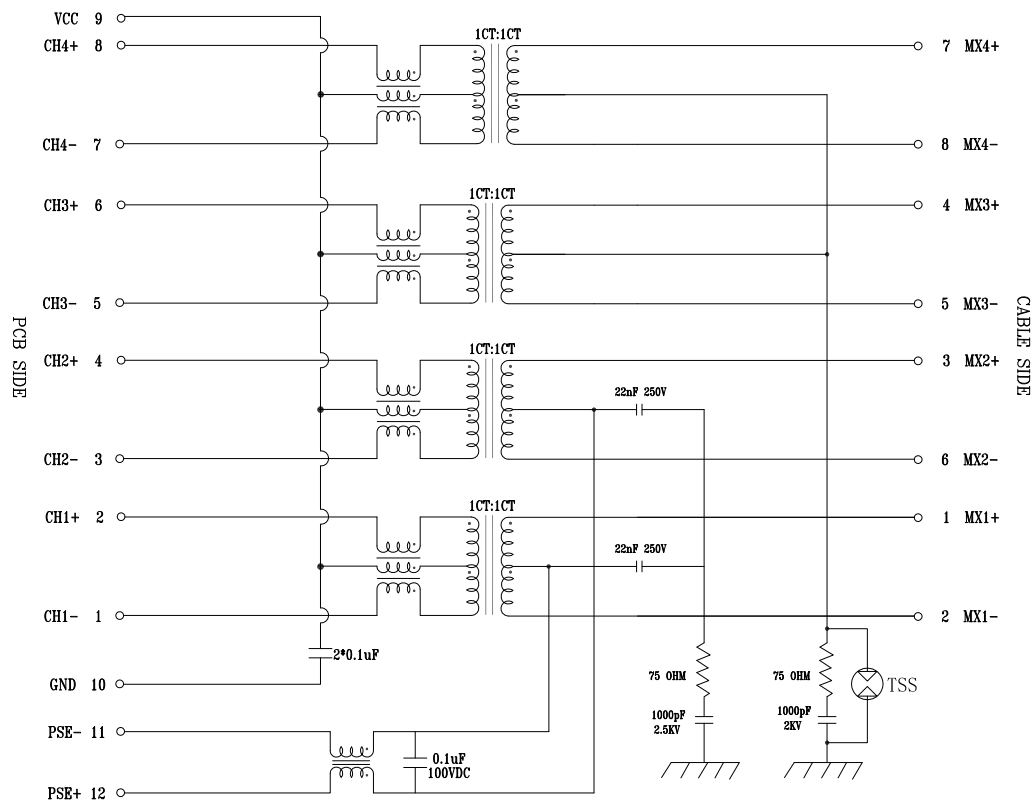
7. PCB PLATING: EG (TOP PCB)
 ENIG (BOTTOM PCB)

8. JEDEC MOISTURE: LEVEL 1.

9. REVISION: MX1, MX2, ARE PRELIMINARY.

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/O LED, 1000Base-T, POE+		
.XXX	±0.10 [.004]	.XXX ° ±1°	FINISH	JDD261100100			
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			
				DR: _____	 SCALE SHEET REV. N/A 1/5 C		

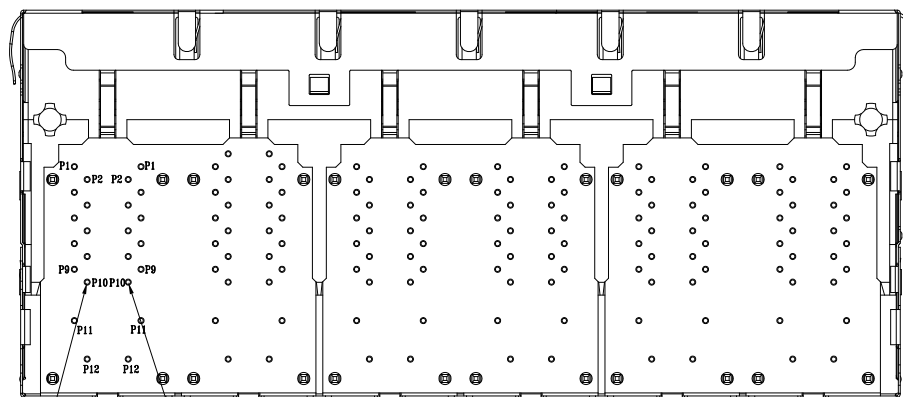
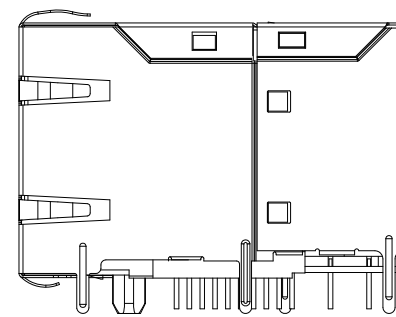
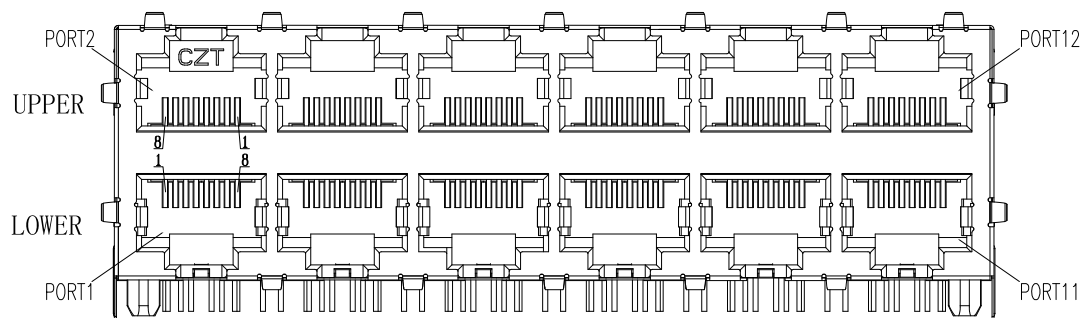
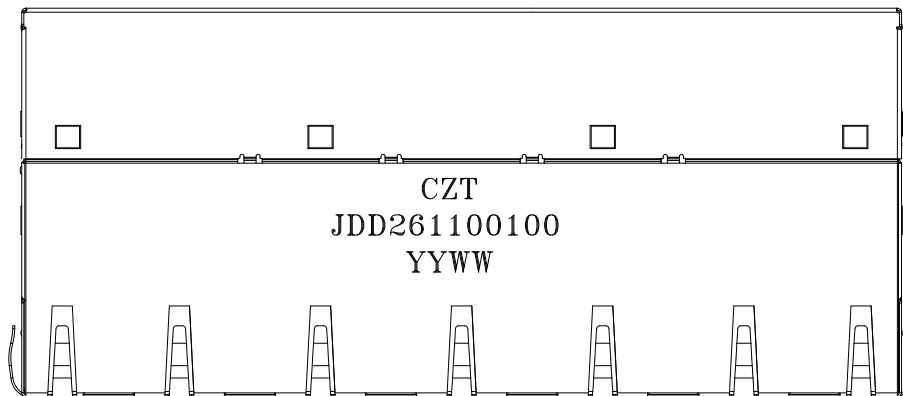
ELECTRICAL CHARACTERISTICS AT +25°C UNLESS OTHERWISE SPECIFIED
(FOR REFERENCE ONLY. USED FOR CUSTOMER INFORMATION.)



PARAMETER	SPECIFICATIONS			
URNS RATIO	1.00 ± 2%			
POLARITY	PFR SCHFMATIC			
INSERTION LOSS	0.1MHz-1MHz	1MHz-65MHz	65MHz-100MHz	100MHz-125MHz
	-1.1dB MAX	-0.5dB MAX	-0.8dB MAX	-1.2dB MAX
RETURN LOSS (Z OUT=100 OHM ±15%)	10.5MHz-40MHz		40MHz-100MHz	
	-18dB MIN		-12+20xlog(F/80) dB MIN	
INDUCTANCE (OCL) (MEDIA SIDE, 0°C-70°C)	MX1, MX2, MX3, MX4		MX3, MX4	
	350 uH MIN WITH 8 mA DC BIAS		120 uH MIN WITH 18 mA DC BIAS	
CROSSTALK, ADJACENT CHANNELS	1 MHz-100 MHz			
	-30 dB MIN			
COMMON MODE REJECTION RATIO	1 MHz-100 MHz			
	-30 dB MIN			
COMMON TO DIFFERENTIAL MODE REJECTION (CDMR)	1 MHz-100 MHz			
	-30 dB MIN			
DC RESISTANCE 1/2 WINDING	.65 OHMS MAX			
DC RESISTANCE IMBALANCE	±.065 OHMS MAX(CENTER TAP SYMMETRY)			
DC CURRENT/VOLTAGE RATING - PSE PINS	840 mA MAXIMUM,@57V(CONTINUOUS)			
INPUT - OUTPUT ISOLATION	2250 VDC MINIMUM FOR 60 SECONDS			
OUTPUT - SHIELD ISOLATION	275 VDC MINIMUM FOR 60 SECONDS			
SURGE PROTECTION (LINE TO GROUND)	6KV			
WORKING VOLTAGE	BELOW 24 VOLTAGES			

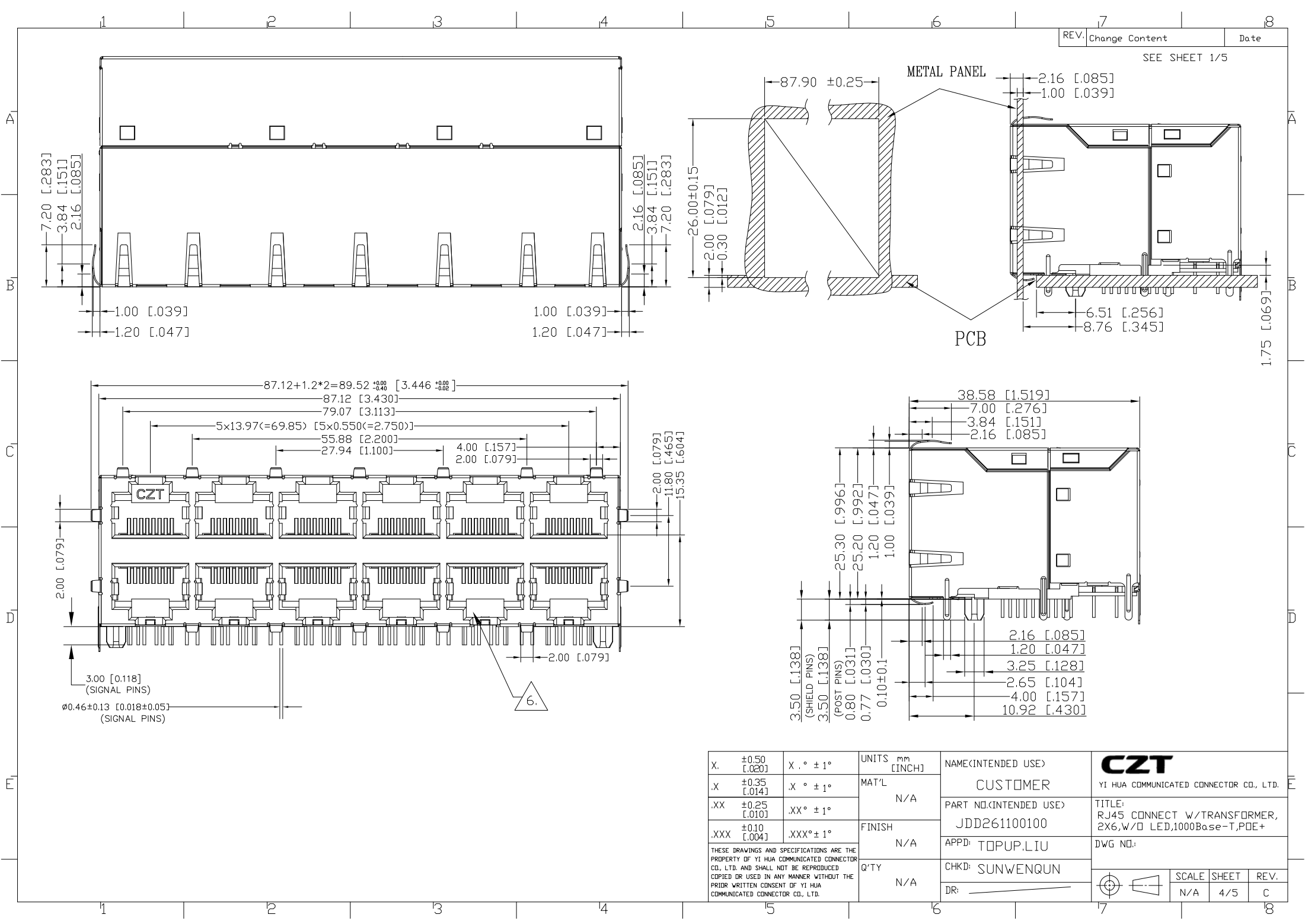
NOTE: f IS FREQUENCY IN MHZ.

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

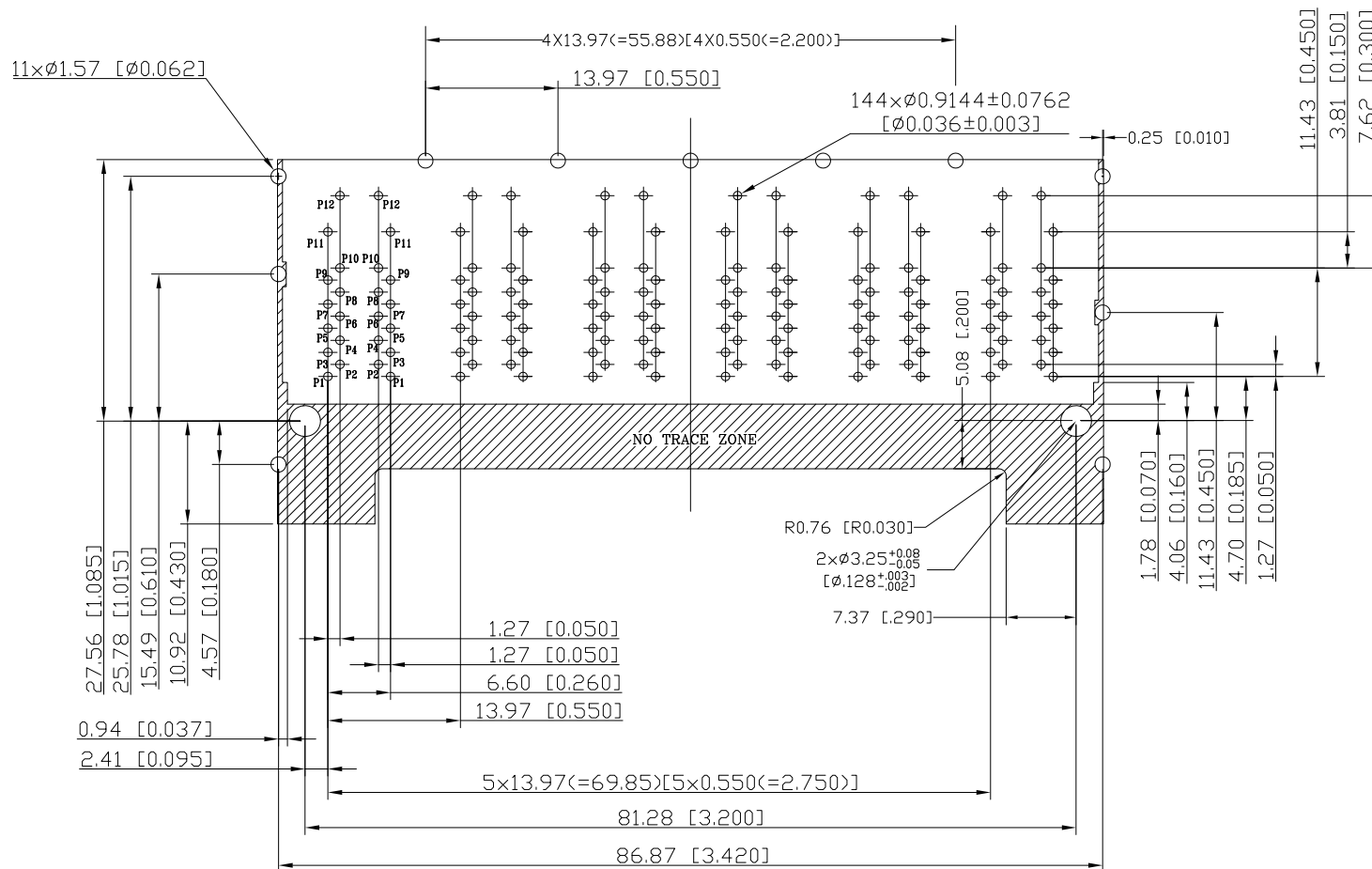
For Lower Row
RJ45 PortsFor Upper Row
RJ45 Ports

FINAL OUTLINE

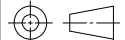
X.	± 0.50 [.020]	X .° $\pm 1^\circ$	UNITS mm [INCH]	NAME(INTENDED USE)	CZT YI HUA COMMUNICATED CONNECTOR CO., LTD.
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.XX	± 0.25 [.010]	.XX° $\pm 1^\circ$	N/A	PART NO.(INTENDED USE)	TITLE: RJ45 CONNECT W/TRANSFORMER, 2X6,W/D LED,1000Base-T,PoE+
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				Q'TY					
				N/A	CHKD: SUNWENQUN				
				DR: _____					



RECOMMENDED PCB LAYOUT
(VIEWED FROM COMPONENT SIDE)

X.	± 0.25 [.010]	X ° $\pm 1^\circ$	UNITS mm [INCH]	NAME (INTENDED USE)	CZT 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: RJ45 CONNECT W/TRANSFORMER, 2X6, W/D LED, 1000Base-T, POE+		
.XXX	± 0.03 [.001]	.XXX ° $\pm 1^\circ$	FINISH	JDD261100100			
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				Q'TY			
				N/A	DR: _____		
					SCALE	SHEET	REV.
					N/A	5/5	C