

REV.	Change Content	Date
A	Initial Release	JAN.11.2017

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. VOLTAGE RATING: 48 VDC MAXIMUM
 3-2. INSULATION RESISTANCE: 500 MEGAOHMS MINIMUM
 3-3. 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 SOLDERING TEMPERATURE 265±5°C FOR 10 SECONDS MAX

5. MATERIAL

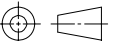
- 5-1. HOUSING: THERMOPLASTIC UL 94V-0. PA66, BLACK
 5-2. CONTACT BASE MATERIAL: PHOSPHOR BRONZE
 5-3. CONTACT UNDERPLATE: 50-90 MICROINCHES DUCTILE NICKEL
 5-4. CONTACT PLATING: GOLD, 50 MICROINCHES MIN IN CONTACT AREA
 5-5. CONTACT STRUCTURE: SECONDARY BEND
 5-6. SOLDER TAIL PLATING MATERIAL: 100-200 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

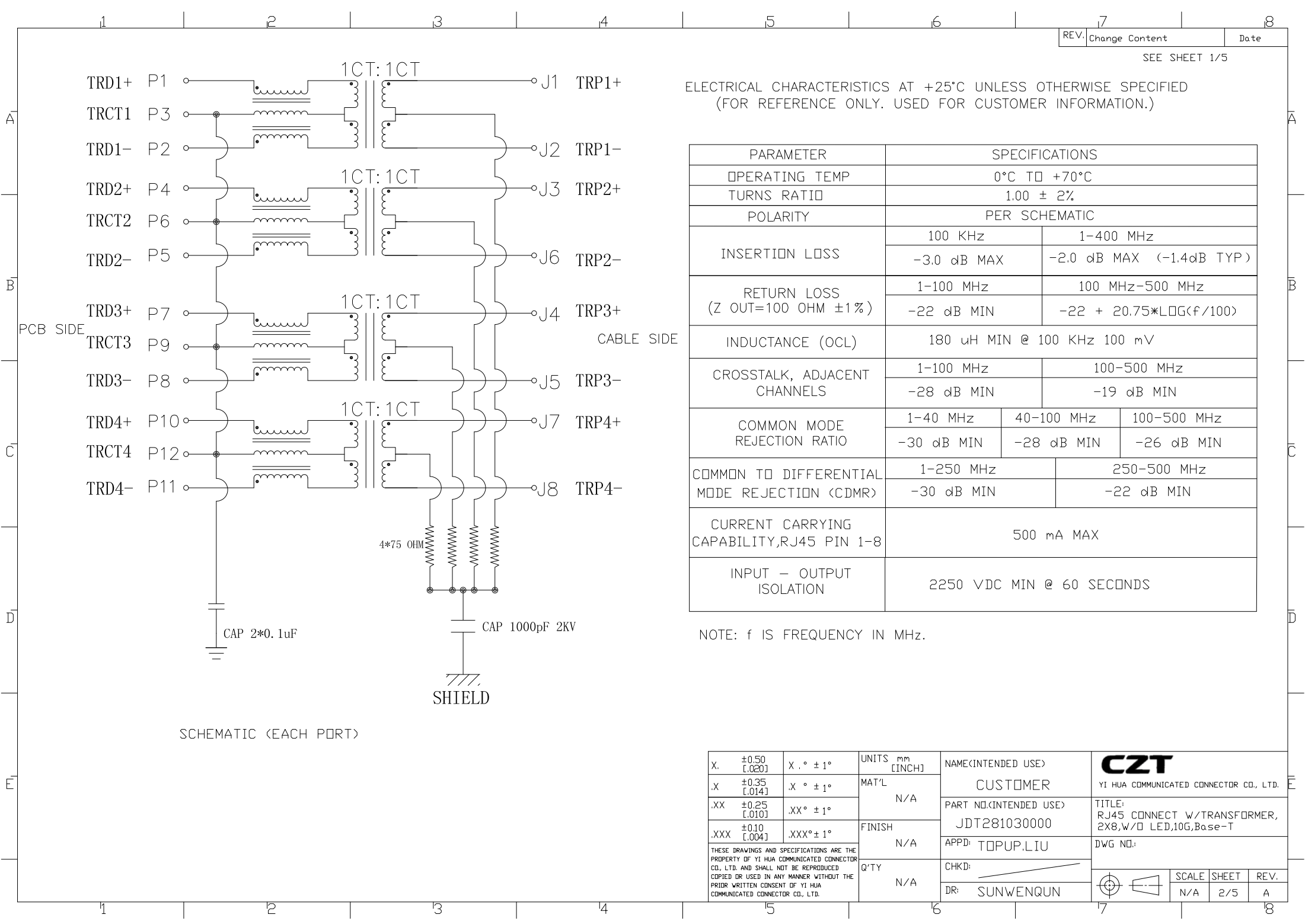
6. JACK CAVITY CONFORMS TO FCC RULES AND REGULATIONS PART 68 SUBPART F

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

8. JEDEC MOISTURE: LEVEL 1.

9. REVISION: MX1, MX2, ARE PRELIMINARY.

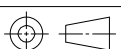
X.	±0.50 [.020]	X ° ± 1°	UNITS mm [INCH]	NAME (INTENDED USE)	CZT YI HUA COMMUNICATED CONNECTOR CO., LTD.
.X	±0.35 [.014]	.X ° ± 1°	MAT'L	CUSTOMER	
.XX	±0.25 [.010]	.XX ° ± 1°	N/A	PART NO. (INTENDED USE)	TITLE: RJ45 CONNECT W/TRANSFORMER, 2X8, W/D LED, 10G, Base-T
.XXX	±0.10 [.004]	.XXX ° ± 1°	FINISH	JDT281030000	
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.			Q'TY	APPD: TOPUP.LIU	DWG NO.:
			N/A	CHKD: _____ DR: SUNWENQUN	 SCALE SHEET REV. N/A 1/5 A

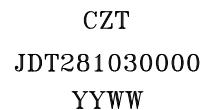


ELECTRICAL CHARACTERISTICS AT +25°C UNLESS OTHERWISE SPECIFIED
(FOR REFERENCE ONLY. USED FOR CUSTOMER INFORMATION.)

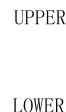
PARAMETER		SPECIFICATIONS	
OPERATING TEMP		0°C TO +70°C	
TURNS RATIO		1.00 ± 2%	
POLARITY		PER SCHEMATIC	
INSERTION LOSS	100 KHz	1-400 MHz	
	-3.0 dB MAX	-2.0 dB MAX (-1.4dB TYP)	
RETURN LOSS (Z OUT=100 OHM ±1%)	1-100 MHz	100 MHz-500 MHz	
	-22 dB MIN	-22 + 20.75*LOG(f/100)	
INDUCTANCE (OCL)		180 uH MIN @ 100 KHz 100 mV	
CROSSTALK, ADJACENT CHANNELS	1-100 MHz	100-500 MHz	
	-28 dB MIN	-19 dB MIN	
COMMON MODE REJECTION RATIO	1-40 MHz	40-100 MHz	100-500 MHz
	-30 dB MIN	-28 dB MIN	-26 dB MIN
COMMON TO DIFFERENTIAL MODE REJECTION (CDMR)	1-250 MHz		250-500 MHz
	-30 dB MIN		-22 dB MIN
CURRENT CARRYING CAPABILITY,RJ45 PIN 1-8		500 mA MAX	
INPUT - OUTPUT ISOLATION		2250 VDC MIN @ 60 SECONDS	

NOTE: f IS FREQUENCY IN MHZ.

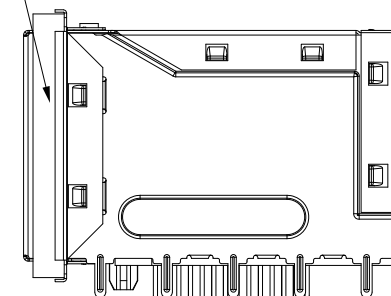
X.	±0.50 [.020]	X .° ± 1°	UNITS mm [INCH]	NAME<INTENDED USE> CUSTOMER		CZT YI HUA COMMUNICATED CONNECTOR CO., LTD.			
.X	±0.35 [.014]	.X ° ± 1°	MAT'L N/A	PART NO.<INTENDED USE> JDT281030000		TITLE: RJ45 CONNECT W/TRANSFORMER, 2X8,W/D LED,10G,Base-T			
.XX	±0.25 [.010]	.XX° ± 1°	FINISH N/A	APPD: TOPUP.LIU		DWG NO.:			
.XXX	±0.10 [.004]	.XXX° ± 1°		Q'TY N/A		CHKD: 		DR: SUNWENQUN	
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.							SCALE N/A	SHEET 2/5	REV. A

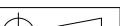


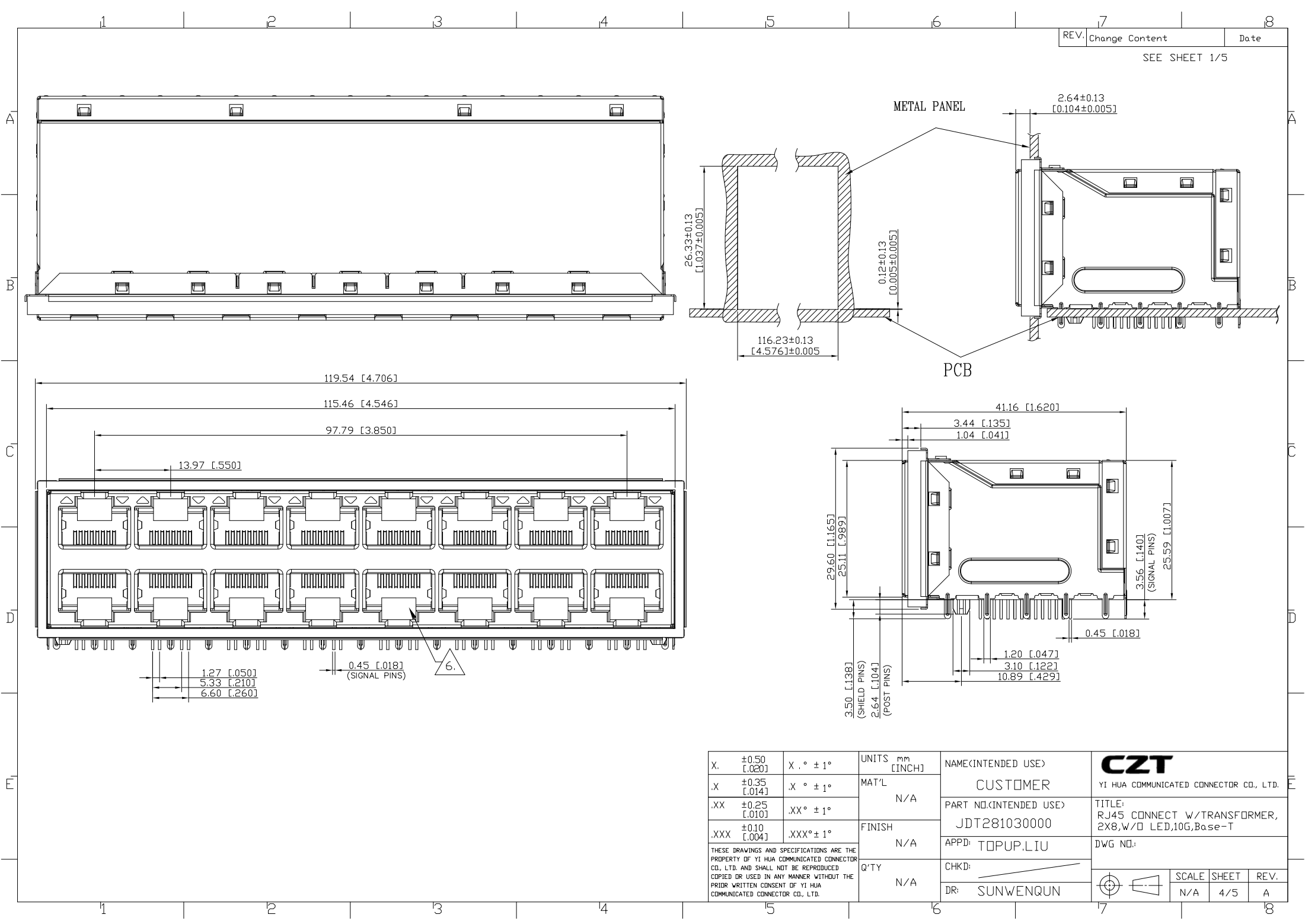
- LIGHTPIPE PORT
ARROWS

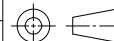


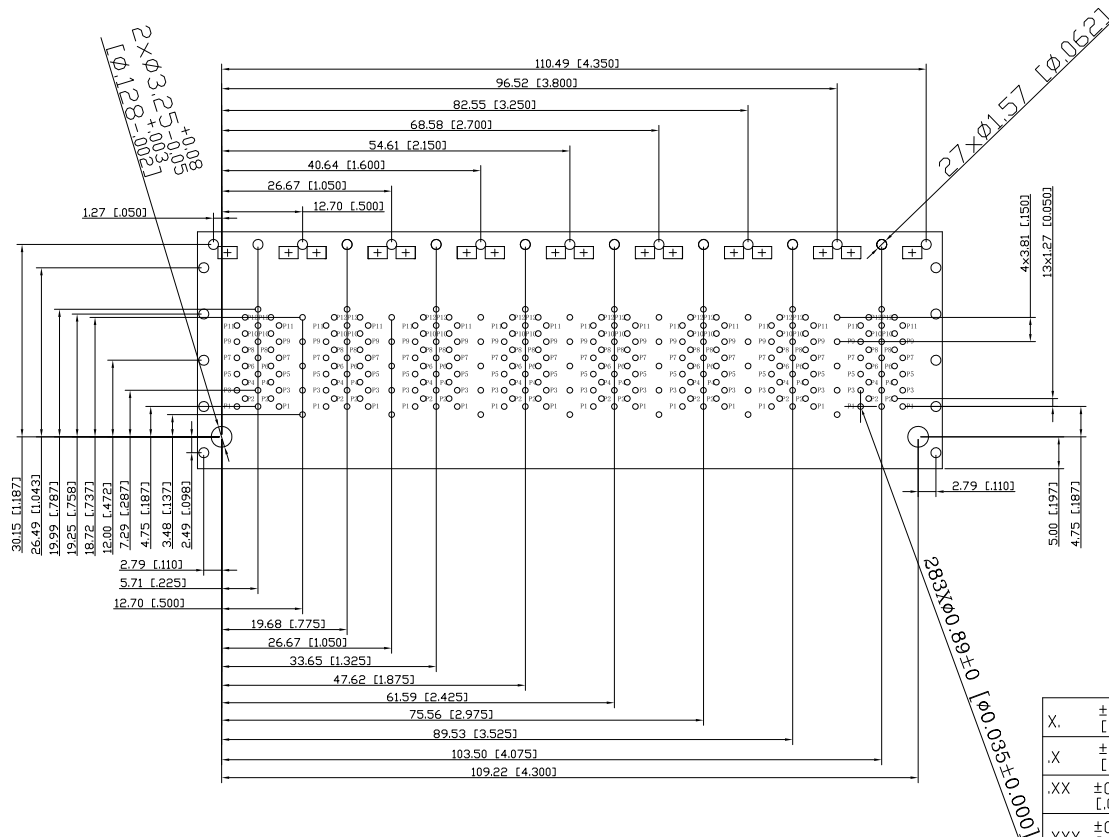
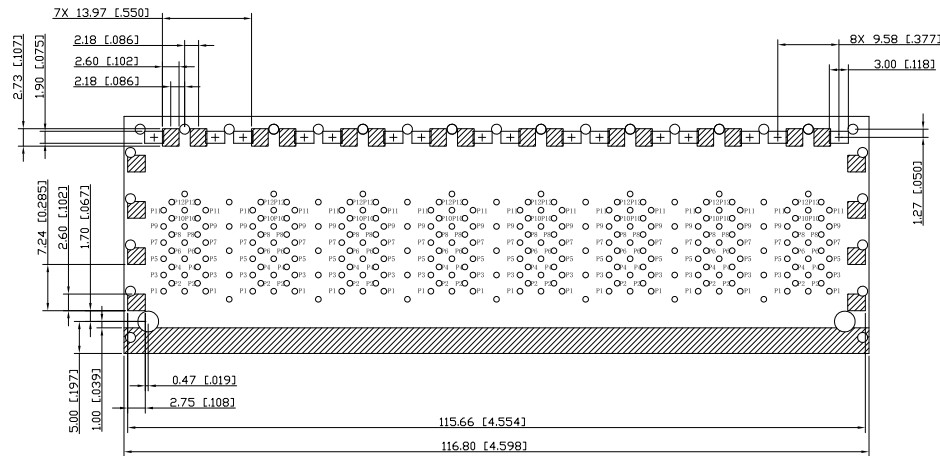
FINAL OUTLINE



X. ± 0.50 [.020]	X. ° $\pm 1^\circ$	UNITS mm [INCH]	NAME(INTENDED USE) CUSTOMER		 YI HUA COMMUNICATED CONNECTOR CO., LTD.		
.X ± 0.35 [.014]	.X ° $\pm 1^\circ$	MAT'L N/A	PART NO.(INTENDED USE) JDT281030000		TITLE: RJ45 CONNECT W/TRANSFORMER, 2X8,W/D LED,10G,Base-T		
.XX ± 0.25 [.010]	.XX° $\pm 1^\circ$	FINISH N/A	APPD: TOPUP.LIU		DWG NO.:		
.XXX ± 0.10 [.004]	.XXX° $\pm 1^\circ$	Q'TY N/A	CHKD: _____				
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.			DR: SUNWENQUN		SCALE N/A	SHEET 3/5	REV. A



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)	
.XXX	±0.10 [.004]	.XXX° ±1°	FINISH	JDT281030000	
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	



RECOMMENDED PCB LAYOUT
(VIEWED FROM COMPERNENT 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	CUSTOMER	
XX	±0.05 [.002]	XX ° ± 1°	N/A	PART NO.(INTENDED USE)	TITLE: RJ45 CONNECT W/TRANSFORMER, 2X8,W/D LED,10G,Base-T
XXX	±0.03 [.001]	XXX ° ± 1°	FINISH	JDT281030000	
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:	
				DR: SUNWENQUN	
				Q'TY	SCALE
				N/A	SHEET
					5/5
					REV.
					A