

REV.	Change Content	Date
A	Initial Release	DEC.13.2013
B	Change The Appearance	MAR.14.2014
C	Change of packing method	MAR.23.2020

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: RoHS 	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 MEGAΩHMS MINIMUM
- 3-4. DIELECTRIC WITHSTANDING VOLTAGE: 2250 VDC CONTACT TO SHIELD

4. MECHANICAL

- 4-1. MATING FORCE: 5 POUNDS MAXIMUM WITH LATCH
DEPRESSEDAT AN ADVANTAGEDOUS ANGLE
UNMATING FORCE: 5 POUNDS MAXIMUM WITH LATCH
DEPRESSEDAT AN ADVANTAGEDOUS ANGLE
PLUG RETENTION FORCE: 10 POUNDS MINIMUM
- 4-2. DURABILITY (MATING/UNMATING): 750CYCLES
- 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

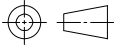
- 5-1. HOUSING: THERMOPLASTIC UL 94V-0. PA66, BLACK
- 5-2. CONTACT BASE MATERIAL: PHOSPHOR BRONZE
- 5-3. CONTACT UNDERPLATE: 50-90 MICROINCHES DUCTILE NICKEL
- 5-4. CONTACT PLATING: GOLD,30 MICROINCHS MIN IN CONTACT AREA
- 5-5. CONTACT STRUCTURE: SECONDARY BEND
- 5-6. SOLDER TAIL PLATING MATERIAL: 100-200 MICROINCHS MATTE TIN MIN OVER 50 MICROINCHS NICKEL, MATTE FINISH
- 5-7. METAL SHIELD: 50-100 MICROINCHES NICKEL PLATING ON COPPER ALLOY
- 5-8. SHIELD PIN: SOLDER WITH MATTE TIN

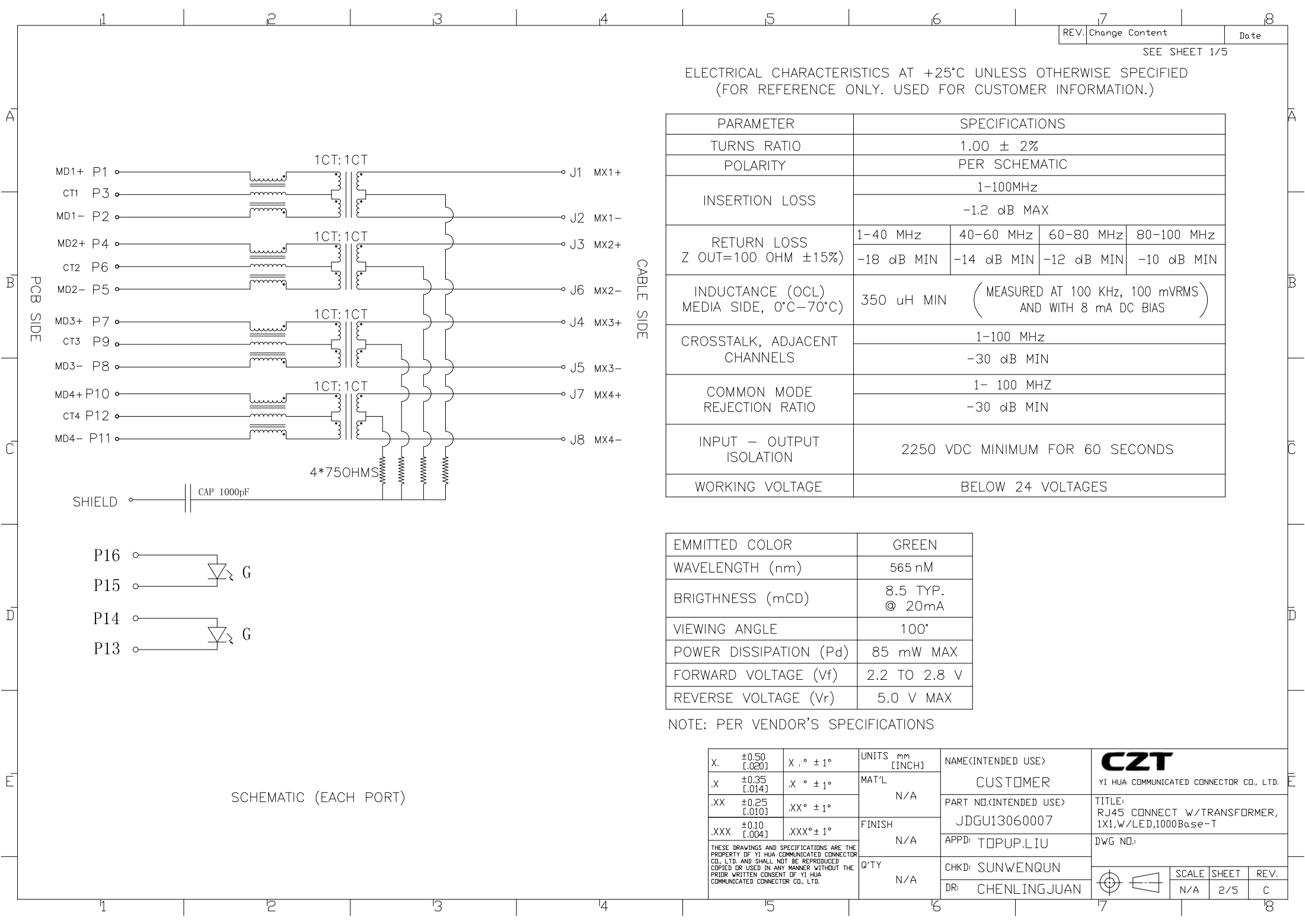
6. JACK CAVITY CONFORMS TO FCC RULES AND REGULATIONS PART 68 SUBPART F

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:
.XXX	±0.10 [.004]	.XXX ° ± 1°	FINISH	JDGU13060007	RJ45 CONNECT W/TRANSFORMER, 1X1,W/LED,1000Base-T
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: SUNWENQUN	 SCALE SHEET REV. N/A 1/5 C
				DR: CHENLINGJUAN	

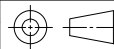


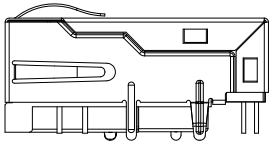
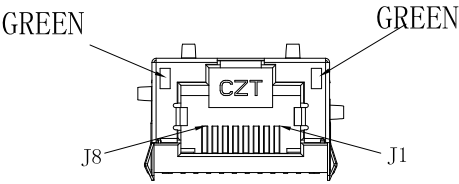
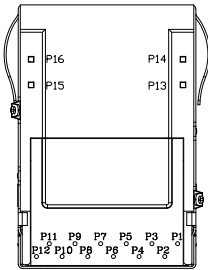
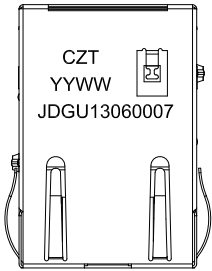
ELECTRICAL CHARACTERISTICS AT +25°C UNLESS OTHERWISE SPECIFIED
(FOR REFERENCE ONLY. USED FOR CUSTOMER INFORMATION.)

PARAMETER	SPECIFICATIONS			
TURNS 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			

EMMITTED COLOR	GREEN
WAVELENGTH (nm)	565 nM
BRIGHTHNESS (mCD)	8.5 TYP. @ 20mA
VIEWING ANGLE	100°
POWER DISSIPATION (Pd)	85 mW MAX
FORWARD VOLTAGE (Vf)	2.2 TO 2.8 V
REVERSE VOLTAGE (Vr)	5.0 V MAX

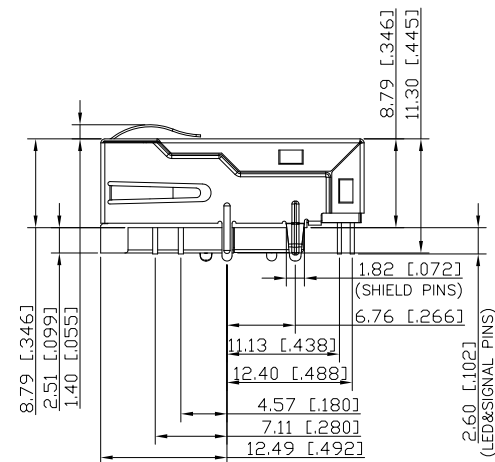
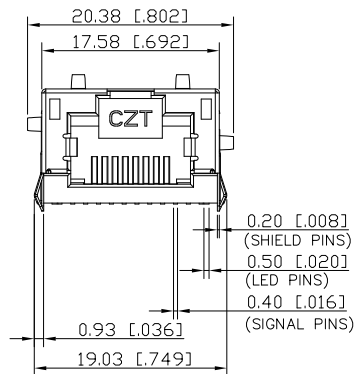
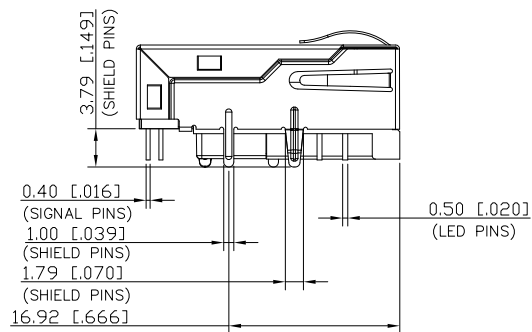
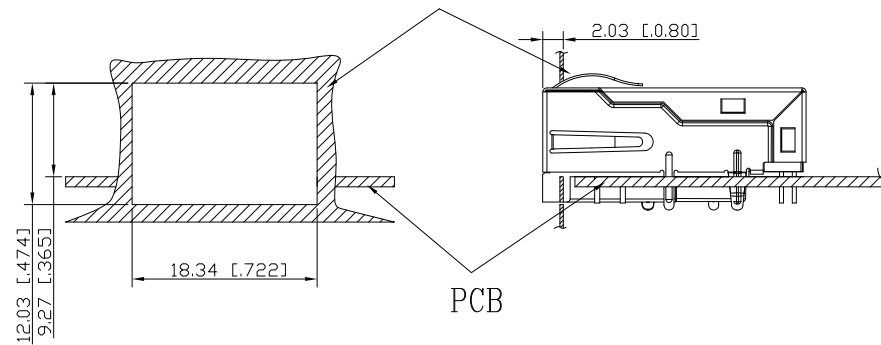
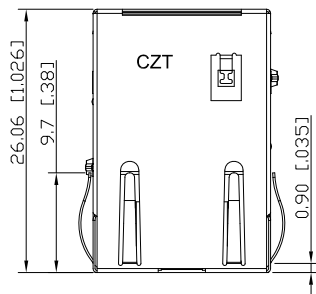
NOTE: PER VENDOR'S SPECIFICATIONS

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, 1X1,W/LED,1000Base-T
.XXX ±0.10 [.004]	.XXX° ±1°	FINISH	JDGU13060007	
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				CHKD: SUNWENQUN
				DR: CHENLINGJUAN
				
				SCALE SHEET REV. N/A 2/5 C

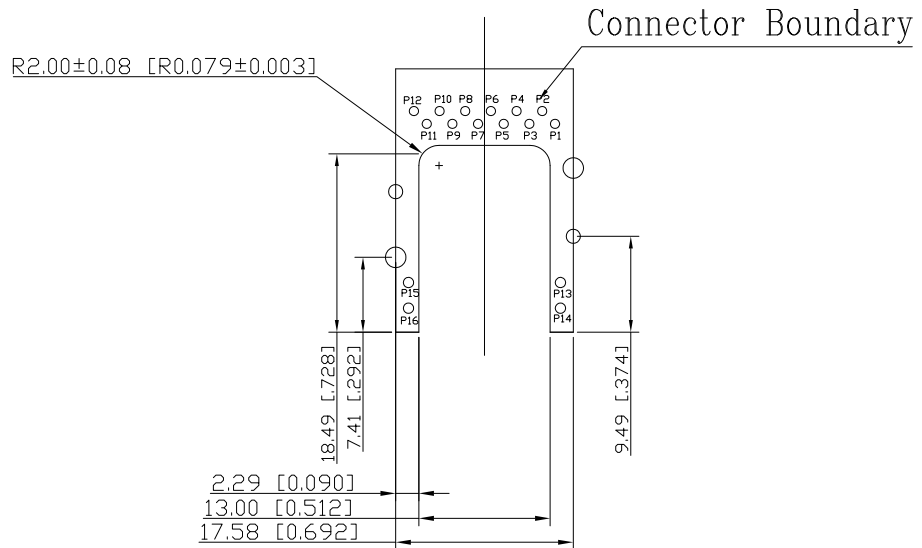


FINAL OUTLINE

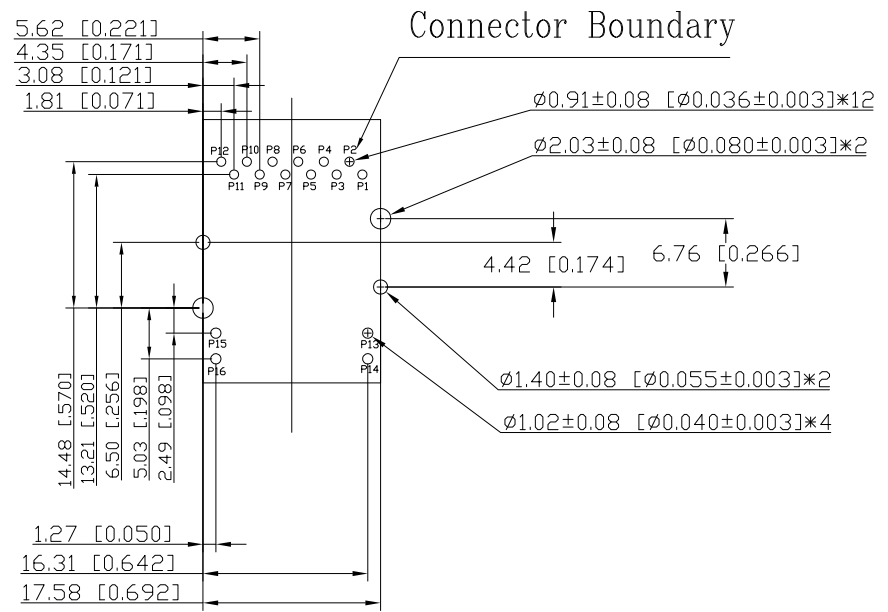
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			Q'TY	CHKD: SUNWENQUN			
			N/A	DR: CHENLINGJUAN			
					SCALE	SHEET	REV.
					N/A	3/5	C



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				Q'TY	
				N/A	
					SCALE SHEET REV. N/A 4/5 C



Plug In Side

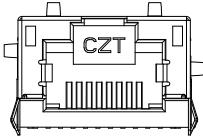


Plug In Side

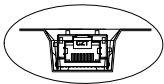
RECOMMENDED PCB LAYOUT
(VIEWED FROM COMPERNENT SIDE)

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 N/A	CUSTOMER			
.XX	±0.05 [.002]	.XX ° ±1°	FINISH N/A	PART NO.<INTENDED USE>	TITLE:		
.XXX	±0.03 [.001]	.XXX ° ±1°		JDGU13060007	RJ45 CONNECT W/TRANSFORMER, 1X1,W/LED,1000Base-T		
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				DR: CHENLINGJUAN			
					SCALE	SHEET	REV.
					N/A	5/5	C

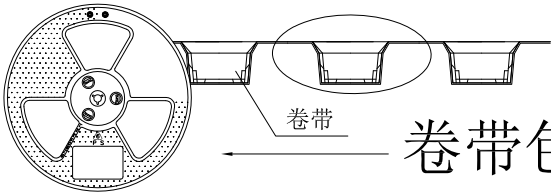
A



B



C



卷带

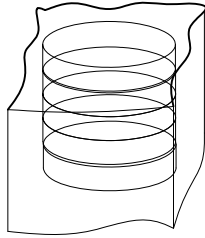
卷带包装

(前后各留出14个空格)

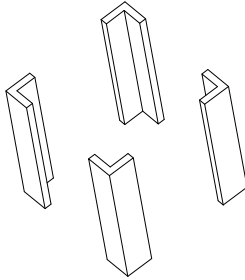
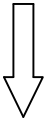
1.
包材:

卷盘料号:
卷带料号:
防水袋:320103A0169
自粘带料号:320106A0169
护角料号: 320106A0463
纸箱料号: 320101A0011
数量: 1盘X160PCS = 160 PCS/盘
1列X5盘=800PCS/列
1箱X1列=800PCS/箱

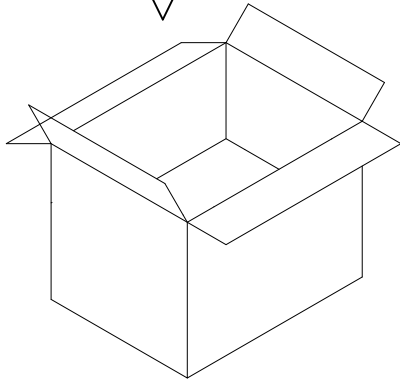
3



5层



护角4个



A

B

C

D

RoHS Compliant u"=μinch

CZT

苏州意华通讯接插件有限公司

SuZhou Yihua Communicated Connector



A4
SIZE

SCALE
比例
1:1

UNIT
单位
mm

CUSTOMER:
客户
MODEL NO:
料号

TOLERANCES
公差
0.00~0.64 ± 0.10
6~15 ± 0.15
15~30 ± 0.20
30~ ± 0.25
ANGLES ±1°

Material:
材质
Finish:
电镀

SEE_NOTE

SEE_NOTE

SHEET 2 OF 2
第 2 页 共 2 页

Designed:
设计

Checked:
审核

Approved:
核准

NAME:
名称

DWG NO:
图号

PART NO:
料号

JDGU13060007

REV.
版本

00

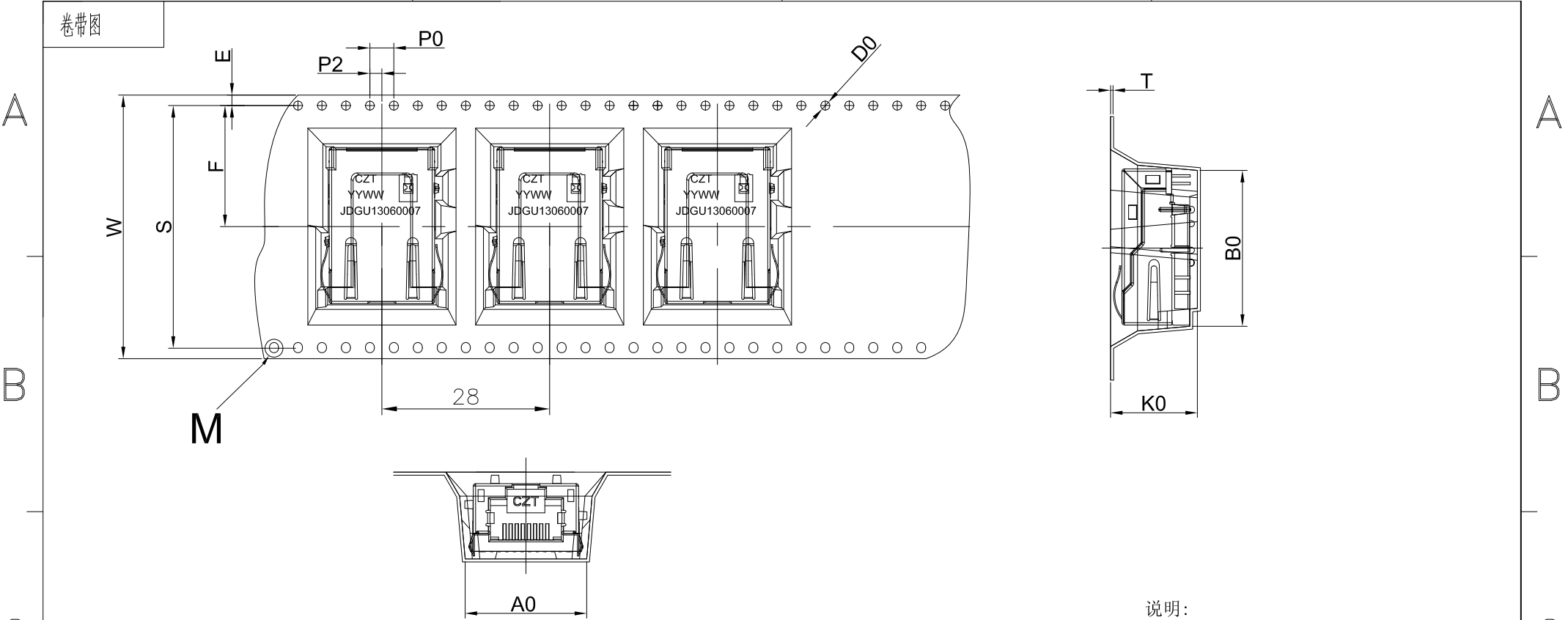
D

1

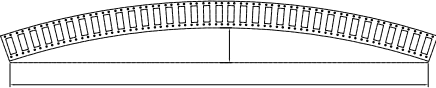
2

3

4



- 说明：
- 1. 10个边孔的累计公差不能超过±A0.2mm.
 - 2. 本产品需符合我司“环境管理物质管制规范”之要求
 - 3. 所有尺寸设计参照EIA-481-C-2003.
 - 4. 载带在250mm长度以内最大弯曲度不超过1mm（见下图）.



生产参数	
模数	47模
颗数	包装160颗，前后各空14颗，共188颗
卷轮	15"/180
米数	5.264M
比例	1:1
单位	mm
材料	PS

RoHS Compliant u"=pinch

ITEM	W	A ₀	B ₀	K ₀	K ₁	P	S	F	E	D ₀	P ₀	P ₂	T
DIM	44.00 ^{+0.30} _{-0.30}	20.27 ^{+0.15} _{-0.15}	26.02 ^{+0.15} _{-0.15}	14.50 ^{+0.15} _{-0.15}		28.00 ^{+0.10} _{-0.10}	40.40 ^{+0.10} _{-0.10}	20.20 ^{+0.15} _{-0.15}	1.75 ^{+0.10} _{-0.10}	1.50 ^{+0.15} _{-0.00}	4.00 ^{+0.15} _{-0.15}	2.00 ^{+0.15} _{-0.15}	0.50 ^{+0.05} _{-0.05}

CZT[®]
苏州意华通讯接插件有限公司
SuZhou Yihua Communicated Connector

第一视角

A4
SIZE

SCALE
比例

1:1

UNIT
单位

mm

CUSTOMER:
客户

MODEL NO:
料号

TOLERANCES
公差

0.00~6 ± 0.10
6~15 ± 0.15
15~30 ± 0.20
30~ ± 0.25
ANGLES ±1°

Material:
材质

SEE_NOTE

Finish:
电镀

SEE_NOTE

SHEET 2 OF 2
第 2 页 共 2 页

Designed:
设计

Checked:
审核

Approved:
核准

NAME:
名称

DWG NO:
图号

PART NO:
料号

REV.
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