CZT

SPECIFICATION FOR APPROVAL

CUSTOMER

CUSTOMER'S PART NO. **REV.**

DESCRIPTION **RJ45 ICM (5GBase-T 1Port)**

CZT'S PART NO. **JDDU19000000** **REV. B**

ISSUE NO.

ISSUE DATE **AUG.21,2018**

☐**APPROVED**

☐**APPROVED UNDER THE CONDITIONS:**

☐**REJECTED:**

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Note:
1. **This specification is the proprietary of Yihua Communicated Connector Co., Ltd. and is not allowed to be revealed to third party without any written approval.**
2. **This specification is valid within 1 year before approval, and for any updated specification information required, please contact with CZT's sales window before order releases.**

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2. Revision Change Record

Customer Part No.:				Rev.: B
CZT Part No.: JDDU19000000				RoHS
Part Name: RJ45 ICM(5GBase-T 1Port)				

Rev	Description	Drawn	Designed	Approved	Issue Date
A	Specification issued	ChenLingjuan	SunWenqun	Topup.Liu	JUL.23 2018
B	Modify the Pin-length to 2.80	ChenLingjuan	SunWenqun	Topup.Liu	Aug.21 2018

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4. Mechanical Dimension and Notes:
   4-1. Mechanical Dimension:

20.33 [0.800]

A

8.00 [0.315]

4.77 [0.188]

J1   CZT   J8

3.92 [0.164]   4.50 [0.177]

1.40 [0.055]   0.30 [0.012]

C

8.00 REF

4.46 [0.175]

B

13.21

D

13 14 15 16

1 2 3 4 5 6 7 8
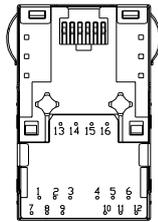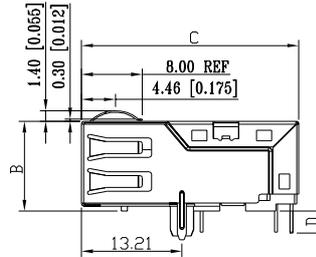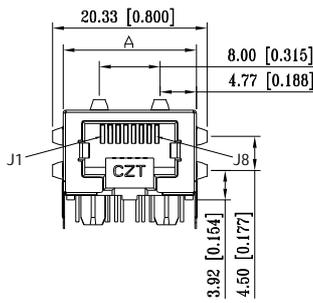
UNIT : mm / inch

A = 17.53 / 0.690
B = 11.92 / 0.445
C = 28.57 / 1.125
D = 2.80 / 0.125
Unless otherwise specified,all dimensions tolerances
is ±0.254 / 0.010.

4-2. Notes:

1. CONNECTOR MATERIAL:
   HOUSING:THERMOPLASTIC BLACK UL94 V-0
   SHIELD:Brass
   SHIELD PLATING:NICKEL
   CONTACT:PHOSPHOR BRONZE
   CONTACT PLATING:SELECTIVE GOLD,50 MICRO-INCHS MIN IN CONTACT AREA
2. PIN NOT ELECTRICALLY CONNECTED MAYBE OMITTED SEE ELECTRICAL DRAWING
   FOR OMITTED PINS
3. RJ45 CAVITIES CONFORM TO FCC RULES AND REGULATION PART 68.
4. THE PART IS RECOMMENDED FOR WAVE SOLDERING PROCESS PEAK SOLDERING
   TEMPERATURE IS 260° C MAX,10 SECS MAX
5. OPERATING TEMPERATURE T=0° C TO +70° C.
6. STORAGE TEMPERATURE T=-40° C TO +85° C.

Drawn by	Designed by	Approved by
ChenLingjuan	SunWenqun	Topup.Liu

| Customer Part No.: | Rev.: B |
| CZT Part No.: JDDU19000000 | RoHS |
| Part Name: RJ45 ICM(5GBase-T 1Port) | |

5. Label and Recommended PWB Layout and Suggested Panel Opening:
   5-1. Label:

Plug In Side
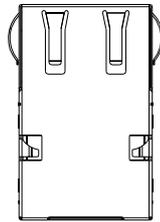
5-2. Suggested Panel Opening:

0.37 [0.015] 2.03 [0.080]
1.00 [.039]
PANEL
0.62 [.024]
10.14 [.399]
13.21 [0.520]
PCB

18.34 [.722]
12.13 [.477]
0.24 [.010]
PANEL
PCB
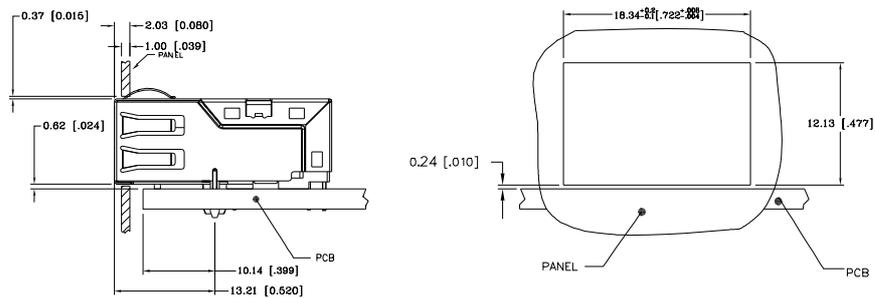
UNIT: mm / inch
Tolerances: ±0.10 / 0.004

REFERENCE ONLY

5-3. Keep-Out Area (Component Side View):
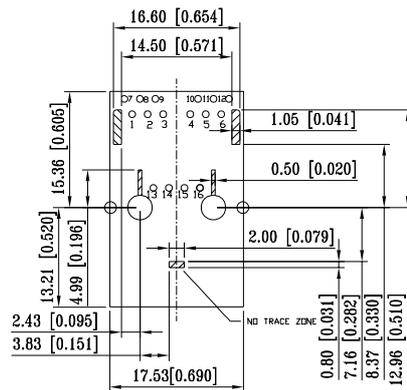
UNIT: mm / inch
Tolerances: ±0.10 / 0.004

Plug In Side

5-4. Recommended PWB Layout (Component Side View):
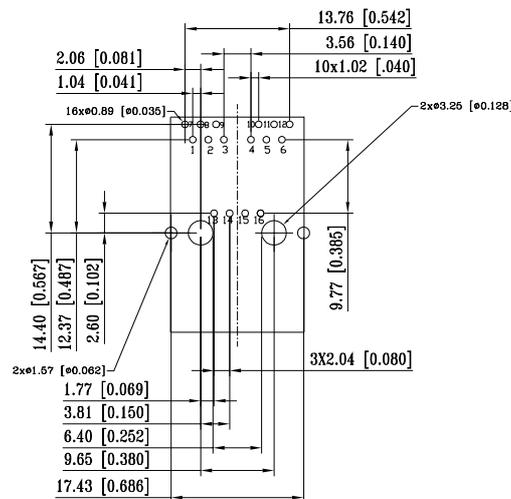
UNIT: mm / inch
Tolerances: ±0.10 / 0.004

Plug In Side

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## SPECIFICATION FOR APPROVAL

6. Circuit Schematic and Electronical Specifications:
   6-1. Circuit Schematic:
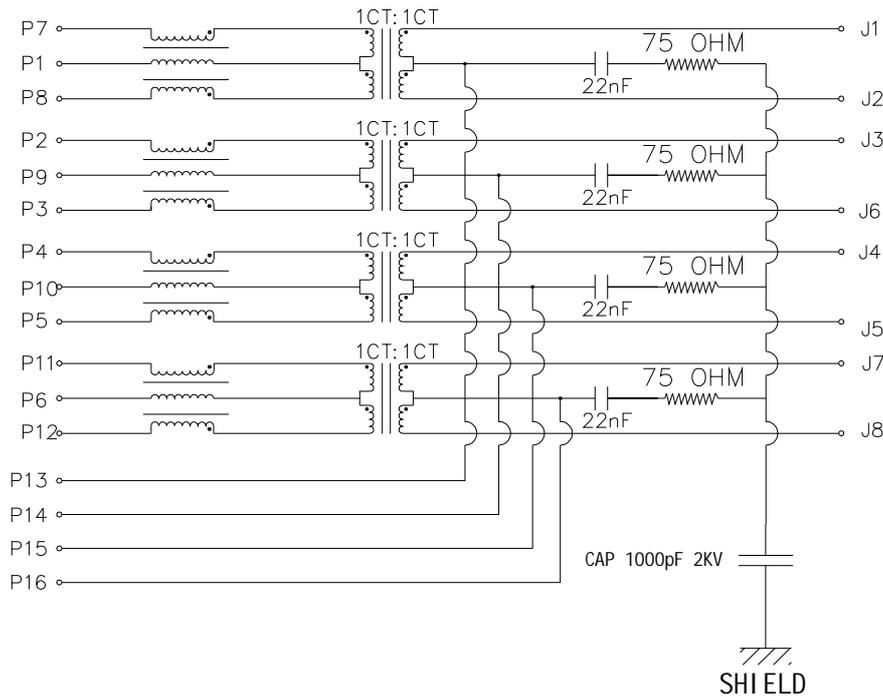
6-2 ELECTRICAL SPECIFICATIONS @ 25℃:

PARAMETER	SPECIFICATIONS		
TURNS RATIO	1.00 ± 2%		
POLARITY	PER SCHEMATIC		
INSERTION LOSS	1-50MHz	50-125MHz	125-250MHz
	-0.5 dB MIN	-1.2 dB MIN	-2 dB MIN
RETURN LOSS	1-40 MHz	40-250 MHz	
	-16 dB MIN	$16+10Log10(f/40)$ 40<f≤250 dB	
COMMON MODE REJECTION RATIO	1-40 MHz	40-100 MHz	100-250 MHz
	-30 dB MIN	-28 dB MIN	-26 dB MIN
DIFFERENTIAL MODE TO COMMON MODE ATTENUATION	1-250 MHz		
	-30dB MIN		
INDUCTANCE (OCL)	120uH MIN @100KHZ,0.1V WITH 19mA DC BIAS 180uH MIN @100KHZ,0.1V WITH 8mA DC BIAS		
CURRENT CARRYING CAPABILITY,RJ45 PIN 1-8	720mA MAX. @57VDC CONTINUDUS		
INPUT — OUTPUT ISOLATION	2250 VDC MINIMUM FOR 60 SECONDS		

NOTE: f IS FREQUENCY IN MHz.