## **CZT**

### SPECIFICATION FOR APPROVAL

CUSTOMER_		
CUSTOMER'S	S PART NO	REV.
DESCRIPTION	NRJ45 ICM (1000	Base-T 1Port)
CZT'S PART N	NO. <u>JDGU13580</u> 4	122Y REV. A
ISSUE NO		
ISSUE DATE	JAN.14,2020	
	□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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## SPECIFICATION FOR APPROVAL

Rev.: A

### 2. Revision Change Record

Customer Part No.: CZT Part No.: JDGU13580422Y

Part	Name: RJ45 ICM(1000Base-T 1Port)	1	1	F	OHS
Rev	Description	Drawn	Designed	Approved	Issue Date
A	Specification issued		SunWenqun	Topup.Liu	JAN.14 2020

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## SPECIFICATION FOR APPROVAL

Customer Part No.:

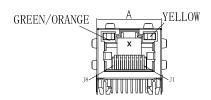
CZT Part No.: JDGU13580422Y

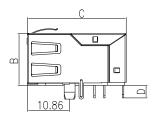
Part Name: RJ45 ICM(1000Base-T 1Port)

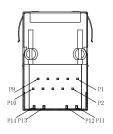


### 4. Mechanical Dimension and Notes:

4-1. Mechanical Dimension:







UNIT: mm / inch
A = 16.70 / 0.657
B = 13.35 / 0.526
C = 25.40 / 1.000
D = 3.25 / 0.128

Unless otherwise specified,all dimensions tolerances is  $\pm 0.254$  / 0.010.

#### 4-2. Notes:

1. CONNECTOR MATERIAL:

HOUSING: THERMOPLASTIC BLACK UL94 V-O HALOGEN FREE

SHIELD:Brass

SHIELD PLATING: NICKEL CONTACT: PHOSPHOR BRONZE

CONTACT PLATING: SELECTIVE GOLD, 6 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  $260^\circ$  C MAX, 10 SECS MAX
- 5. OPERATING TEMPERATURE T=0° C TO +70° C.
- 6. STORAGE TEMPERATURE T=-40° C TO +85° C.

LED SPECIFICATION				
STANDARD LED	WAVELENGTH	Forward Current	Forward V(max)	TYP
GREEN	565nm	20 mA	2.4V	2.2V
YELLOW	590nm	20 mA	2.5V	2.1V
ORANGE	605nm	20 mA	2.5V	2.0V

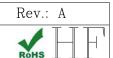
Drawn by	Designed by	Approved by		
	SunWenqun	Topup.Liu		

# CZT SPECIFICATION FOR APPROVAL

Customer Part No.:

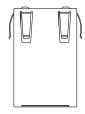
CZT Part No.: JDGU13580422Y

Part Name: RJ45 ICM(1000Base-T 1Port)

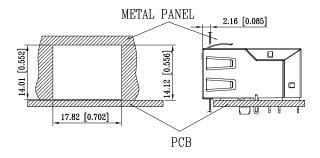


5. Label and Recommended PWB Layout and Suggested Panel Opening: 5-1. Label:

Plug In Side



### 5-2. Suggested Panel Opening:



UNIT: mm / inch

Tolerances: ±0.10 / 0.004

REFERENCE ONLY

# CZT SPECIFICATION FOR APPROVAL

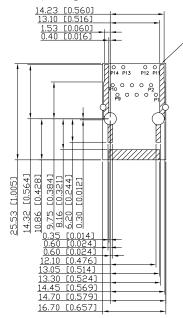
Customer Part No.:

CZT Part No.: JDGU13580422Y

Part Name: RJ45 ICM(1000Base-T 1Port)

# Rev.: A

### 5-3. Keep-Out Area (Component Side View):



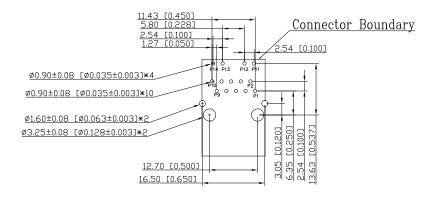
Connector Boundary

UNIT: mm / inch

Tolerances:  $\pm 0.10$  / 0.004

### Plug-in side

5-4. Recommended PWB Layout (Component Side View):



Plug-in side

UNIT: mm / inch

Tolerances:  $\pm 0.10 / 0.004$ 

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### SPECIFICATION FOR APPROVAL

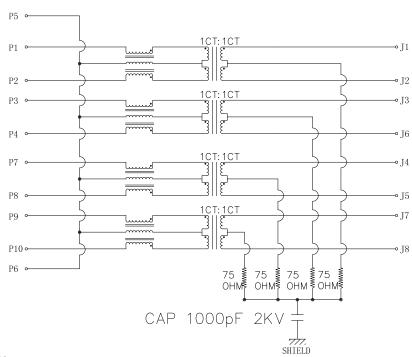
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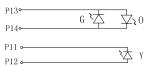
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Part Name: RJ45 ICM(1000Base-T 1Port)



6. Circuit Schematic and Electronical Specifications: 6-1. Circuit Schematic:





Pin	Green	0range		Yellow
P13	-	+	P11	-
P14	+	I	P12	+

### 6-2. Electronical Specifications:

1.0 Turn Ratio @100KHz:  $(P1\sim P2):(J1\sim J2) = 1:1\pm 5\%$ 

 $(P3\sim P4):(J3\sim J6) = 1:1\pm 5\%$   $(P7\sim P8):(J4\sim J5) = 1:1\pm 5\%$  $(P9\sim P10):(J7\sim J8) = 1:1\pm 5\%$ 

2.0 Primary Inductance: 350uH MIN @100KHZ,0.1V 8mA DC BIAS

3.0 DC Resistance: 1.2 OHMS MAX

4.0 Insertion Loss: 1-100MHz -1.0dB MAX

100-125MHz -1.2dB MAX

5.0 Return Loss: 1-40MHz -16dB MIN

40-60MHz -12dB MIN 60-80MHz -10dB MIN 80-100MHz -8dB MIN

6.0 Cross Talk: 1-100MHz -30dB MIN

7.0 COMMON TO COMMON MODE ATTENUATION: 1-100MHz -30dB MIN

8.0 Isolation: PHY Side to Line Side: 2250VDC