

# CZT

## SPECIFICATION FOR APPROVAL

CUSTOMER \_\_\_\_\_

CUSTOMER'S PART NO. \_\_\_\_\_ REV. \_\_\_\_\_

DESCRIPTION RJ45 ICM (1000Base-T 1Port)

CZT'S PART NO. JDDD14530004 REV. C

ISSUE NO. \_\_\_\_\_

ISSUE DATE DEC.19,2018

<input type="checkbox"/> APPROVED	<input type="checkbox"/> REJECTED:
<input type="checkbox"/> APPROVED UNDER THE CONDITIONS:	

SuZhou Yihua Communicated Connector Co., Ltd.

Add: No.1558, Linhu East Road, Foho New&Hi-tech industrial Development Zone,  
Wujiang,Jiangsu,P.R.C.

TEL:+86-512-82078810

FAX:+86-512-82078858

DongGuan Yizhao Electronic Co., Ltd.

Add: Yihua Holdings Industrial park, Cuntou district, Hu'men Town,  
Dongguan,Guangdong,P.R.C.

TEL:+86-769-8624 0111

FAX:+86-769-8624 0238


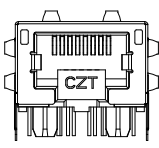
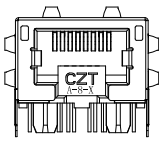
### Note:

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.

# CZT

## SPECIFICATION FOR APPROVAL

### 2. Revision Change Record

Customer Part No.: CZT Part No.: JDDD14530004 Part Name: RJ45 ICM(1000Base-T 1Port)					Rev.: C
					
Rev	Description	Drawn	Designed	Approved	Issue Date
A	Specification issued	ChenLingjuan	SunWenqun	Topup.Liu	SEP.20 2018
	Change From:  To: 	ChenLingjuan	SunWenqun	Topup.Liu	SEP.20 2018
B	Change From: 5. OPERATING TEMPERATURE T=0° C TO +85° C. To: 5. OPERATING TEMPERATURE T=-40° C TO +85° C.	ChenLingjuan	SunWenqun	Topup.Liu	OCT.15 2018
C	Correct the LED color	ChenLingjuan	SunWenqun	Topup.Liu	dec.19 2018

# CZT

## SPECIFICATION FOR APPROVAL

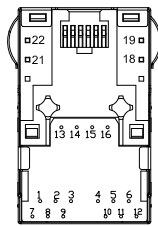
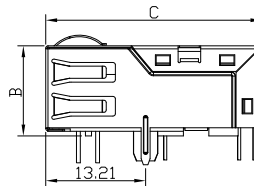
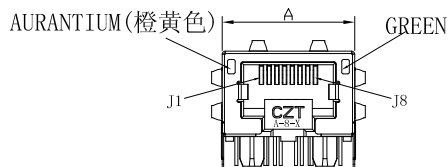
Customer Part No.:  
CZT Part No.: JDDD14530004  
Part Name: RJ45 ICM(1000Base-T 1Port)

Rev.: C



#### 4. Mechanical Dimension and Notes:

##### 4-1. Mechanical Dimension:



UNIT : mm / inch

A = 17.53 / 0.690

B = 11.92 / 0.445

C = 28.57 / 1.125

D = 3.18 / 0.125

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

##### 4-2. Notes:

- CONNECTOR MATERIAL:  
HOUSING: THERMOPLASTIC BLACK UL94 V-0  
SHIELD: Brass  
SHIELD PLATING: NICKEL  
CONTACT: PHOSPHOR BRONZE  
CONTACT PLATING: SELECTIVE GOLD, 30 MICRO-INCHES MIN IN CONTACT AREA
- PIN NOT ELECTRICALLY CONNECTED MAYBE OMITTED SEE ELECTRICAL DRAWING FOR OMITTED PINS
- RJ45 CAVITIES CONFORM TO FCC RULES AND REGULATION PART 68.
- THE PART IS RECOMMENDED FOR WAVE SOLDERING PROCESS PEAK SOLDERING TEMPERATURE IS 260° C MAX, 10 SECS MAX
- OPERATING TEMPERATURE T = -40° C TO +85° C.
- 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
AURANTIUM(橙黄色)	590nm	20 mA	2.5V	2.1V

Drawn by  
ChenLingjuan

Designed by  
SunWenqun

Approved by  
Topup.Liu

# CZT

## SPECIFICATION FOR APPROVAL

Customer Part No.:  
CZT Part No.: JDDD14530004  
Part Name: RJ45 ICM(1000Base-T 1Port)

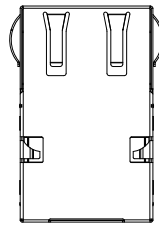
Rev.: C



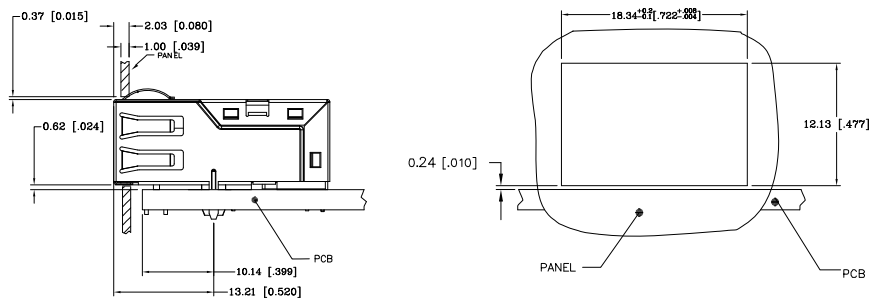
### 5. Label and Recommended PWB Layout and Suggested Panel Opening:

#### 5-1. Label:

Plug In Side



#### 5-2. Suggested Panel Opening:



SUGGESTED PANEL CUTOUT

UNIT: mm / inch  
Tolerances:  $\pm 0.10$  / 0.004

REFERENCE ONLY

# CZT

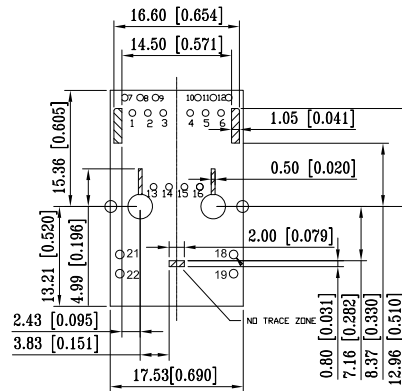
## SPECIFICATION FOR APPROVAL

Customer Part No.:  
CZT Part No.: JDDD14530004  
Part Name: RJ45 ICM(1000Base-T 1Port)

Rev.: C



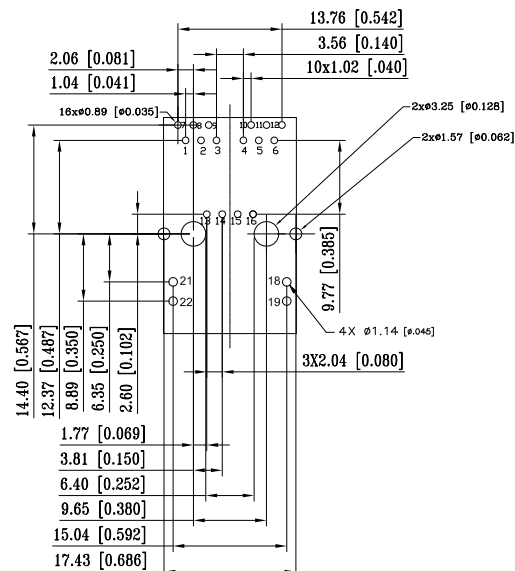
### 5-3. Keep-Out Area (Component Side View):



UNIT: mm / inch  
Tolerances:  $\pm 0.10$  / 0.004

Plug In Side

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



UNIT: mm / inch  
Tolerances:  $\pm 0.10$  / 0.004

Plug In Side

# CZT

## SPECIFICATION FOR APPROVAL

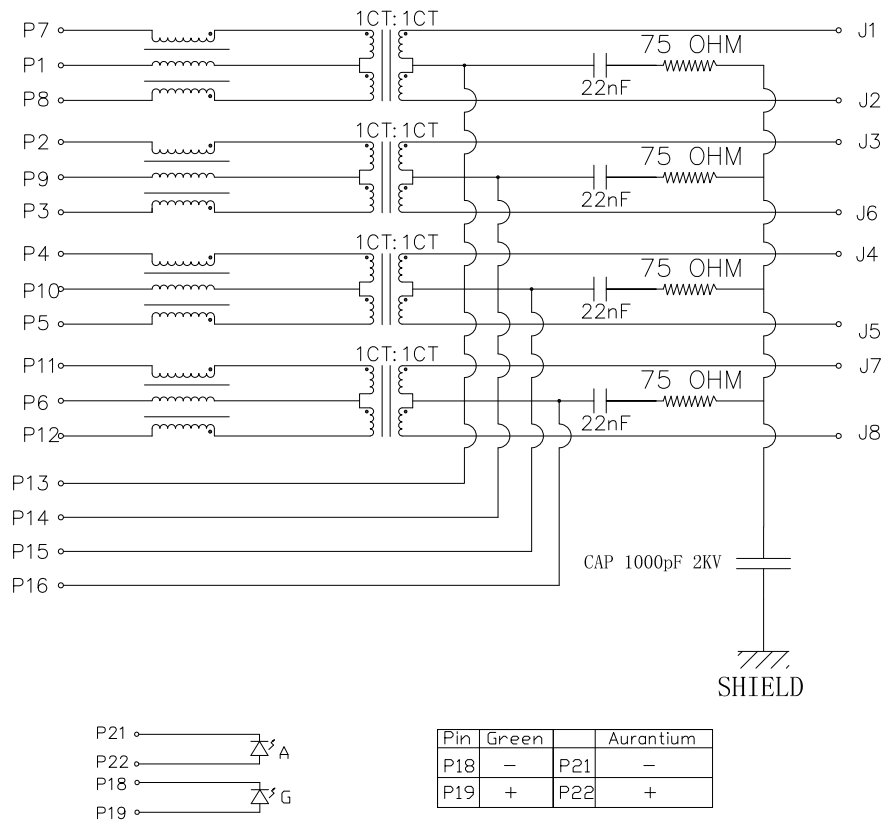
Customer Part No.:  
CZT Part No.: JDDD14530004  
Part Name: RJ45 ICM(1000Base-T 1Port)

Rev.: C



### 6. Circuit Schematic and Electronical Specifications:

#### 6-1. Circuit Schematic:



#### 6-2 ELECTRICAL SPECIFICATIONS @ 25°C:

- 1.0 Turn Ratio @100KHz: (P7~P8):(J1~J2) = 1:1±5%  
(P2~P3):(J3~J6) = 1:1±5%  
(P4~P5):(J4~J5) = 1:1±5%  
(P11~P12):(J7~J8) = 1:1±5%
- 2.0 Primary Inductance: 350uH MIN @100KHZ,0.1V 8mA DC BIAS  
120uH MIN @100KHZ,0.1V 19mA 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
- 9.0 DC CURRENT/VOLTAGE RATING-PSE PINS: 720mA @57V(CONTINUOUS)