

CZT

SPECIFICATION FOR APPROVAL

CUSTOMER _____

CUSTOMER'S PART NO. _____ REV. _____

DESCRIPTION RJ45 ICM (1000 Base-T 2Port)

CZT'S PART NO. JDGU23410305 REV. D

ISSUE NO. 18A-0007

ISSUE DATE FEB.06,2018

☐ APPROVED

☐ REJECTED:

☐ 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

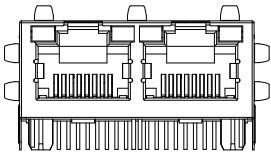
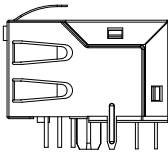
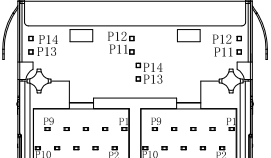
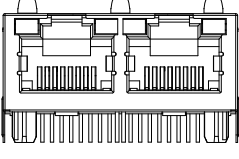
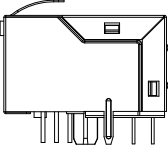
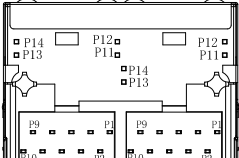
1. Cover Page

Customer Part No.: CZT Part No.: JDGU23410305 Part Name: RJ45 ICM(1000Base-T 2Port)		Rev.: D
		
Content:	Total	11 Pages
1. Cover Page	Page	1 of 11
2. Revision Change Record	Page	2 of 11
3. Deviation Request	Page	3 of 11
4. Mechanical Dimension and Notes		
4-1. Mechanical Dimension	Page	4 of 11
4-2. Notes	Page	4 of 11
5. Label and Recommended PWB Layout and Suggested Panel Opening		
5-1. Label	Page	5 of 11
5-2. Suggested Panel Opening	Page	5 of 11
5-3. Recommended PWB Layout	Page	6 of 11
5-4. Keep-Out Area	Page	6 of 11
6. Circuit Schematic and Electronical Specification		
6-1. Circuit Schematic	Page	7 of 11
6-2. Electronical Specification	Page	7 of 11
7. Reliability Test Items	Page	8 of 11
8. Sample Test Data	Page	9~11 of 11

CZT

SPECIFICATION FOR APPROVAL

2. Revision Change Record

Customer Part No.: CZT Part No.: JDGU23410305 Part Name: RJ45 ICM(1000Base-T 2Port)					Rev.: D
					
Rev	Description	Drawn	Designed	Approved	Issue Date
A	Specification issued		SunWenqun	Topup.Liu	AUG.10 2017
B	Change From:    To:   		SunWenqun	Topup.Liu	AUG.14 2017
C	Change From: 4-2. Notes: 5. OPERATING TEMPERATURE T=0° C TO +70° C. To: 4-2. Notes: 5. OPERATING TEMPERATURE T=-40° C TO +85° C.		SunWenqun	Topup.Liu	SEP.08 2017
D	Change From: 4-1. Mechanical Dimension: D = 3.50 / 0.138 To: 4-1. Mechanical Dimension: D = 3.20 / 0.126		SunWenqun	Topup.Liu	SEP.25 2017

CZT

SPECIFICATION FOR APPROVAL

3. Deviation Request

Customer Part No.: CZT Part No.: JDGU23410305 Part Name: RJ45 ICM(1000Base-T 2Port)		Rev.: D
Original Spec	Spec For Deviation Request	Reasons For Request
Drawn by _____	Designed by SunWenqun	Approved by Topup.Liu

CZT

SPECIFICATION FOR APPROVAL

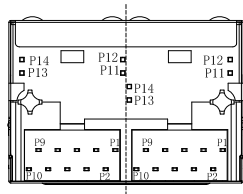
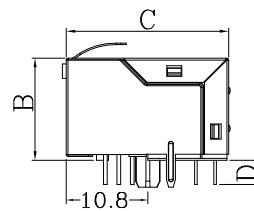
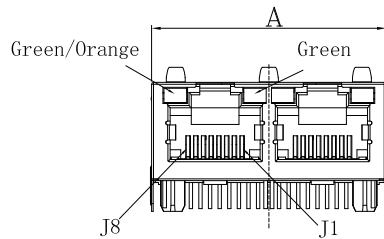
Customer Part No.:
CZT Part No.: JDGU23410305
Part Name: RJ45 ICM(1000Base-T 2Port)

Rev.: D



4. Mechanical Dimension and Notes:

4-1. Mechanical Dimension:



UNIT : mm / inch

A = 31.00 / 1.220

B = 13.50 / 0.530

C = 21.50 / 0.846

D = 3.20 / 0.126

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

4-2. Notes:

1. CONNECTOR MATERIAL:
HOUSING: PA66 BLACK UL94 V-0
SHIELD: Brass
SHIELD PLATING: NICKEL
CONTACT: PHOSPHOR BRONZE
CONTACT PLATING: GOLD, 6 MICRO-INCHES 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 = -40° C TO +85° 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
ORANGE	605nm	20 mA	2.5V	2.0V

Drawn by

Designed by

SunWenqun

Approved by

Topup.Liu

CZT

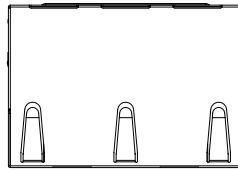
SPECIFICATION FOR APPROVAL

Customer Part No.:
CZT Part No.: JDGU23410305
Part Name: RJ45 ICM(1000Base-T 2Port)

Rev.: D

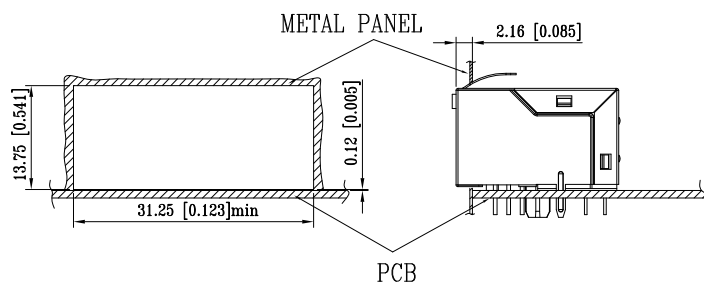


5. Label and Recommended PWB Layout and Suggested Panel Opening:
5-1. Label:



Plug In Side

- 5-2. Suggested Panel Opening:



UNIT: mm / inch
Tolerances: ± 0.10 / 0.004

REFERENCE ONLY

CZT

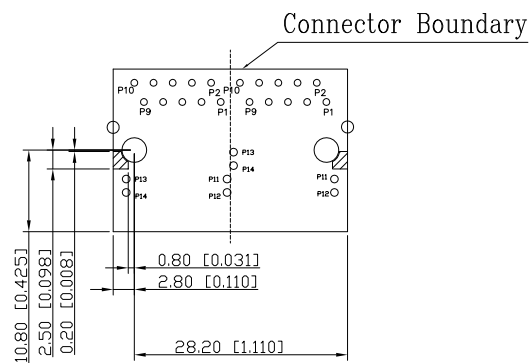
SPECIFICATION FOR APPROVAL

Customer Part No.:
CZT Part No.: JDGU23410305
Part Name: RJ45 ICM(1000Base-T 2Port)

Rev.: D



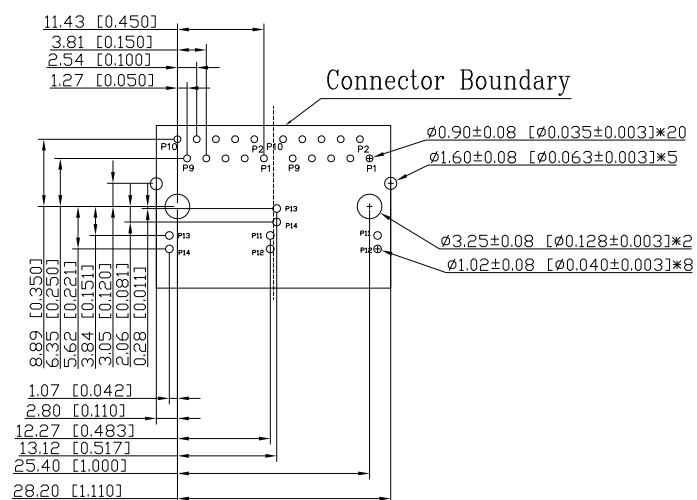
5-3. Keep-Out Area (Component Side View):



Plug-in side

UNIT: mm / inch
Tolerances: ± 0.10 / 0.004

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



Plug-in side

UNIT: mm / inch
Tolerances: ± 0.10 / 0.004

CZT

SPECIFICATION FOR APPROVAL

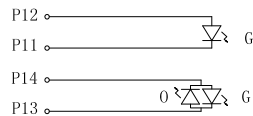
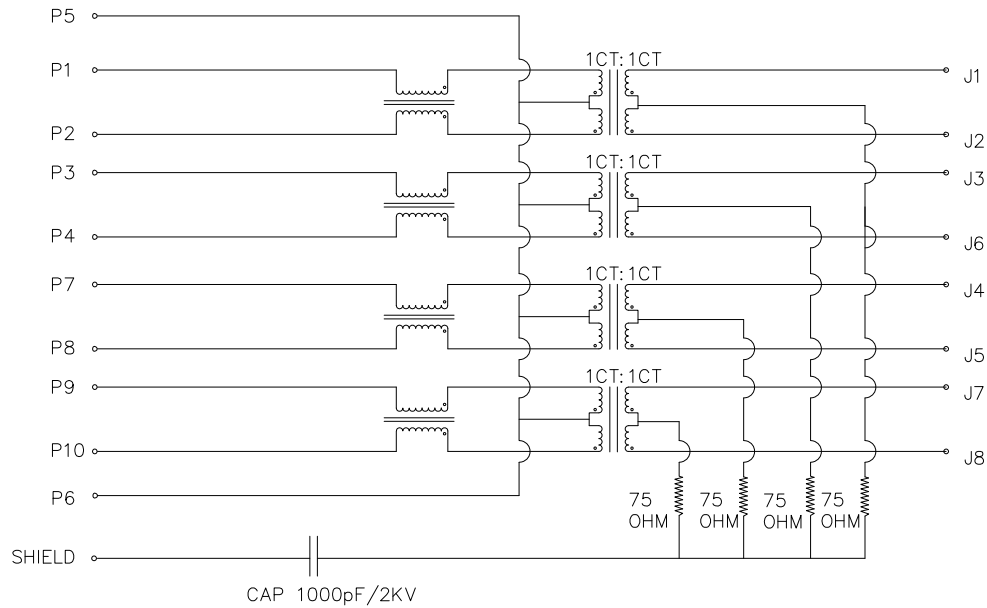
Customer Part No.:
CZT Part No.: JDGU23410305
Part Name: RJ45 ICM(1000Base-T 2Port)

Rev.: D



6. Circuit Schematic and Electronical Specifications:

6-1. Circuit Schematic:



Pin	Green		Green		Orange
P11	-	P13	-	P13	+
P12	+	P14	+	P14	-

6-2. Electronical Specifications:

- 1.0 Turn Ratio @100KHz: (P1~P2):(J1~J2) = 1:1±5%
(P3~P4):(J3~J6) = 1:1±5%
(P7~P8):(J4~J5) = 1:1±5%
(P9~P10):(J7~J8) = 1:1±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

CZT

SPECIFICATION FOR APPROVAL

Customer Part No.:
CZT Part No.: JDGU23410305
Part Name: RJ45 ICM(1000Base-T 2Port)

Rev.: D



8. Reliability Test Items:

Test Item	Test Condition	Criteria
1.1. Solderability	Refer to EIA/JESD22-B102D 1).Precondition:150±5°C,16±0.5Hours 2).Flux Type:ROL1 3).Immersion Flux Time: 5~10 Seconds 4).Solder Temperature:245±5°C 5).Solder Immersion Time:5±0.5 Seconds 6).Solder Immersion/Emersion	Solder coverage area of terminal exceed 95%
2.1. Resistance To Soldering Heat--Dip and Look(Through Hole)	Refer to EIA/JEDEC B106-B 1).Temperature:260±5°C 2).Duration Time:10+2/-0 Seconds	1).No mechanical problem found. 2) No electrical failure found per CZT's specification .
2.2. Thermal Shock	Refer to IEC68-2-14 1.Low Temperature:-40±3°C 2.High Temperature:125±3°C 3.Dwell Time:30 Minutes 4.Transition Time: Less Than 5Minutes 5.Number of Cycles: 10	1).No mechanical problem found. 2) No electrical failure found per CZT's specification .
2.3. High Temperature	Refer to IEC68-2-2 85±3°C ,240Hours	1).No mechanical problem found. 2) No electrical failure found per CZT's specification .
2.4. Low Temperature	Refer to IEC68-2-1 -40±3°C ,96Hours	1).No mechanical problem found. 2) No electrical failure found per CZT's specification .
2.5. Temperature Humidity Cycle	Refer to IEC68-2-38 Temp Humidity soak time 25~65°C 93+/-3%RH 1.5 hr 65°C 93+/-3%RH 4 hr 65~25°C 80~96%RH 2.5 hr 25~65°C 93+/-3%RH 1.5hr 65°C 93+/-3%RH 4hr 65~25°C 80~96%RH 2.5hr 25°C 93+/-3%RH 1.5hr 25°C ~ -10°C NA 0.5hr -10°C~25°C NA 3hr 25°C 93+/-3%RH 1.5hr Number of cycles: 10	1).No mechanical problem found. 2) No electrical failure found per CZT's specification .
3.1. Salt Atmosphere	Refer to IEC68-2-11 1.Temperature:35°C 2.PH Value:6.5~7.2 3.Salt Solution:5% 4.Duration:8Hours	1).No mechanical problem found(Golden Finer and Shelding). 2) No electrical failure found per CZT's specification .
4.1. Vibration	Refer to IEC 68 - 2 - 6 1. Amplitude: 0.75mm (or 10G) 2. Frequency: 5 ~ 500 ~ 5 Hz 3. Number of sweep cycles per axis: 10 4. Direction: X , Y , Z 5. Duration: 2 Hours each direction	1).No mechanical problem found. 2) No electrical failure found per CZT's specification .
4.2. Mechanical Shock	Refer to MIL-STD-202F Method 213B Pulse shape: half-sine Peak acceleration: 75G Duration: 6 ms Orientation: (x, -x, y, -y, z, -z) 3 shocks each orientation, Total are 18 shocks	1).No mechanical problem found. 2) No electrical failure found per CZT's specification .
5.1. Goriella Test--Ring Wiggle Method	CZT inner specification 1) RJ45 Plug Height Type: Over: 0.232 inch (5.8928mm) Normal: 0.237 inch (6.0198mm) under: 0.247 inch (6.2738mm) Cisco under: 0.252 inch (6.4008mm) 2) Applied road: 8 pound weight 3) Ring test circles: 3 complete revolution 4) Motor Speed rate: 4rpm	1).No mechanical problem found. 2).No electrical failure found per CZT's specification. 3).without no Link found
6.1. Durability--Plug Insert and Withdrawal Jack 750 Cycle	Refer to IEC 512-9A 1).Insert And Withdrawal Speed: 10mm/Second 2).Number of Operation: 750Cycles	1).No mechanical problem found. 2) No electrical failure found per CZT's specification. 3) Contact resistance not exceed 40 mOHM
7.1. Contact Resistance	Refer to IEC512-2-2a Mate connectors: apply a minimum voltage of 20 mV and a current of 100mA over jack contact	Contact resistance not exceed 20 mOHM

CZT

TEST DATA

HUM(%): 40RH~75RH

[illegible]

REMARK

CZT

TEST DATA

CUSTOMER PART NO:	TEMP(°C): 20~30
-------------------	-----------------

CUSTOMER PART NO:	TEMP(°C): 20~30
-------------------	-----------------

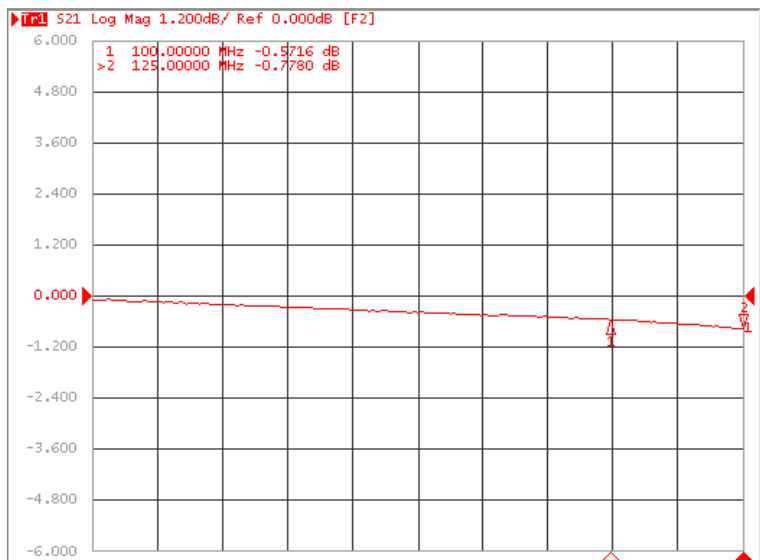
CZT PART NO:JDGU23410305 HUM(%): 40RH~75RH

CZT PART NO:JDGU23410305 HUM(%): 40RH~75RH

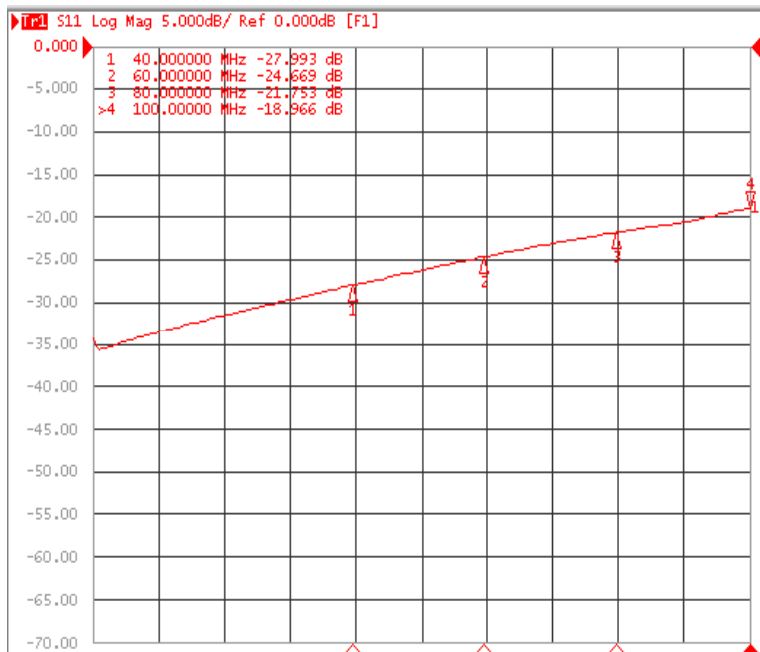
Q'TY: 10PCS

[illegible]

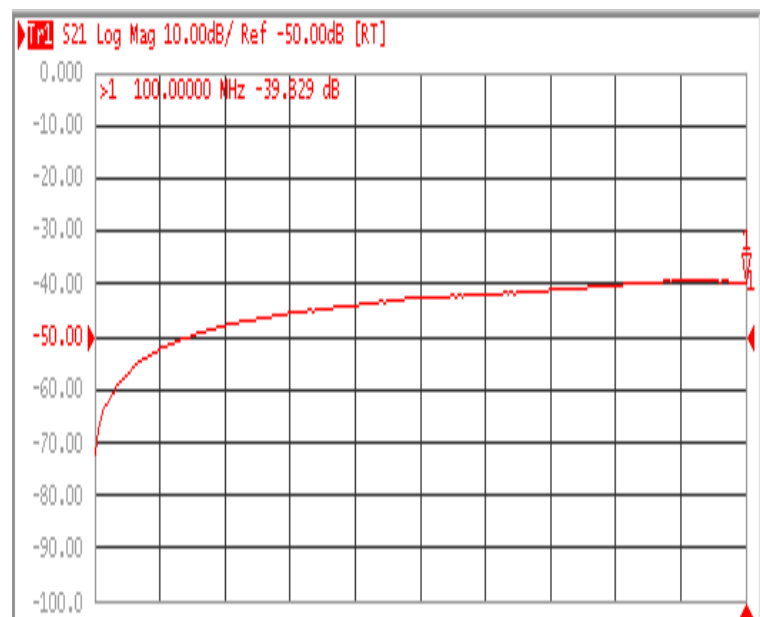
REMARK



CUSTOMER:
 PART NO:JDGU23410305
 ST ITEM: INSERTION LOSS
 ISSUE NO: 18A-0007
 ISSUE DATE : FEB.06,2018



CUSTOMER:
 PART NO:JDGU23410305
 TEST ITEM: RETURN LOSS
 ISSUE NO: 18A-0007
 ISSUE DATE : FEB.06,2018



CUSTOMER:
 PART NO:JDGU23410305
 TEST ITEM: CROSS TALK
 ISSUE NO: 18A-0007
 ISSUE DATE : FEB.06,2018