

CZT

SPECIFICATION FOR APPROVAL

CUSTOMER _____

CUSTOMER'S PART NO. _____ REV. _____

DESCRIPTION **RJ45 ICM(1000M Base-T 2x4 Ports)**

CZT'S PART NO. **JDD242210003** REV. **B**

CZT OLD P/N _____

ISSUE NO. _____

ISSUE DATE **MAR.26,2020**

☐ **APPROVED**

☐ **REJECTED:**

☐ **APPROVED UNDER
THE CONDITIONS:**

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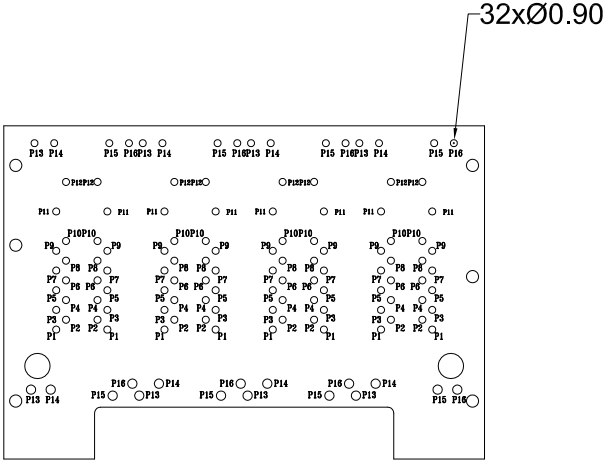
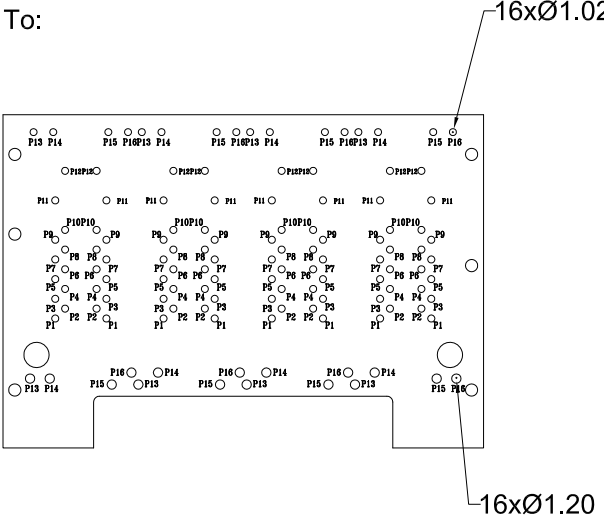
Note:

- 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.: CZT Part No.: JDD242210003 Part Name: RJ45 ICM(1000M Base-T 2x4Port)					Rev.: B
					
Rev	Description	Drawn	Designed	Approved	Issue Date
A	Specification issued	AlinYao	HuXiang	DavidChen	ESP.26,2019
B	Change From:  To: 	AlinYao	HuXiang	DavidChen	MAR.10,2020

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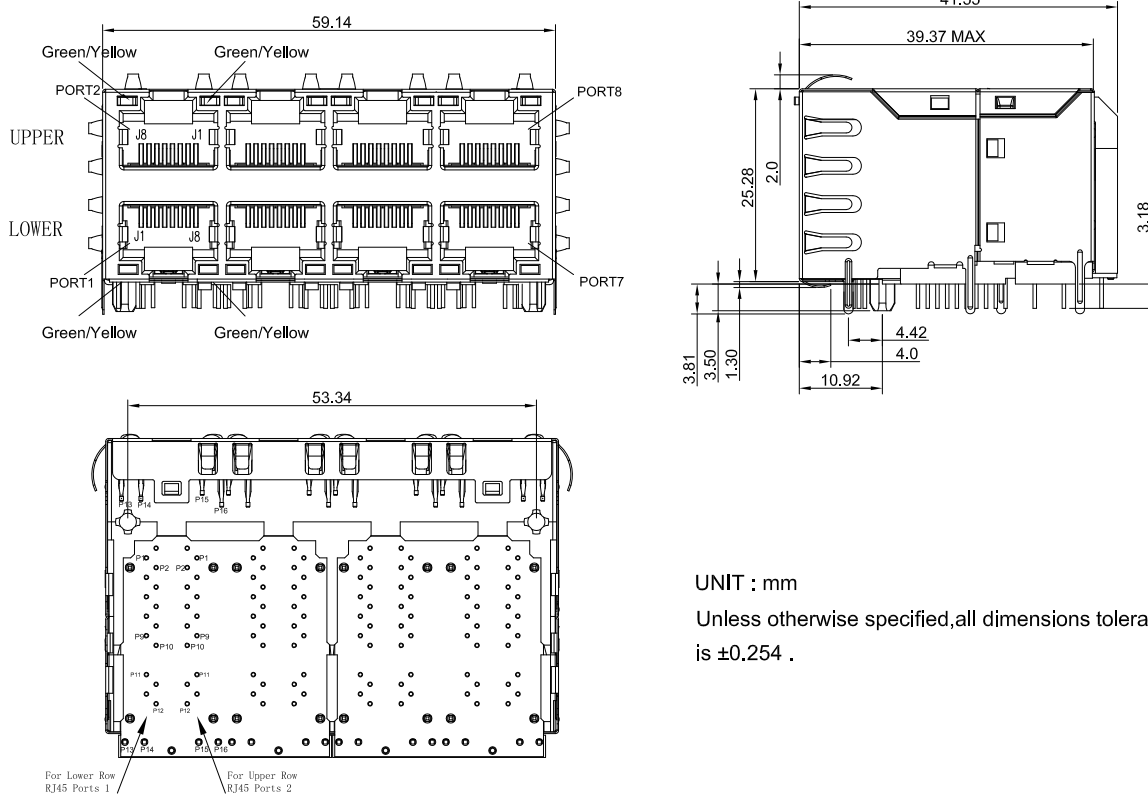
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Rev.: B



4. Mechanical Dimension and Notes:

4-1. Mechanical Dimension:



UNIT : mm

Unless otherwise specified, all dimensions tolerances is ± 0.254 .

4-2. Notes:

- CONNECTOR MATERIAL:
HOUSING: THERMOPLASTIC BLACK UL94 V-0
SHIELD: Brass
SHIELD PLATING: NICKEL
CONTACT: PHOSPHOR BRONZE
CONTACT PLATING: SELECTIVE GOLD, 50 MICRO-INCHES MIN IN CONTACT AREA
- PIN NOT ELECTRICALLY CONNECTED MAY BE 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
YELLOW	590nm	20 mA	2.4V	2.1V

Drawn by

AlinYao

Designed by

HuXiang

Approved by

DavidChen

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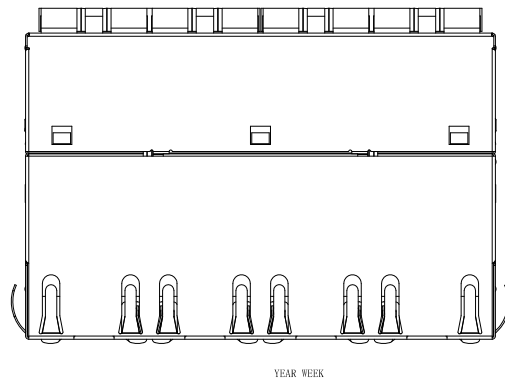
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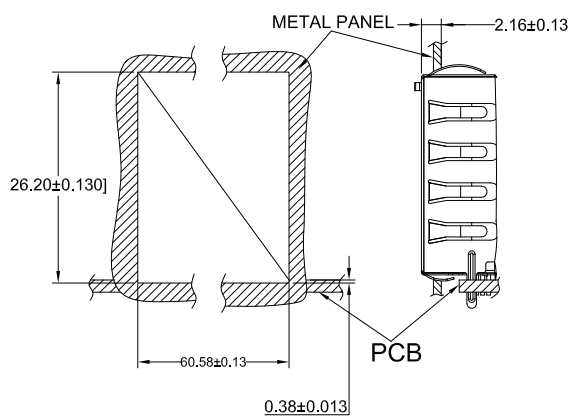
5. Label and Recommended PWB Layout and Suggested Panel Opening:

5-1. Label:



Plug In Side

5-2. Suggested Panel Opening:



UNIT: mm
Tolerances: ± 0.10

REFERENCE ONLY

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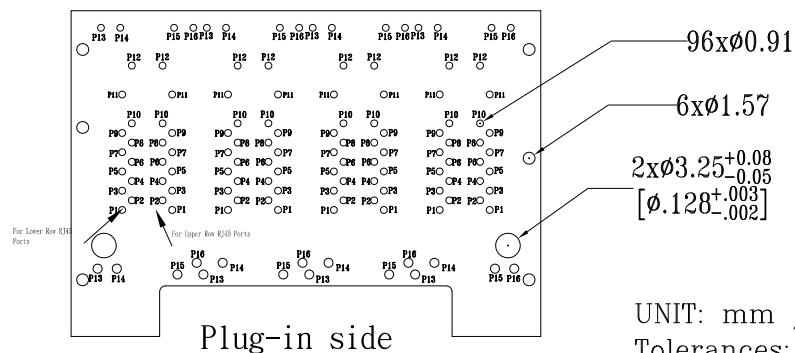
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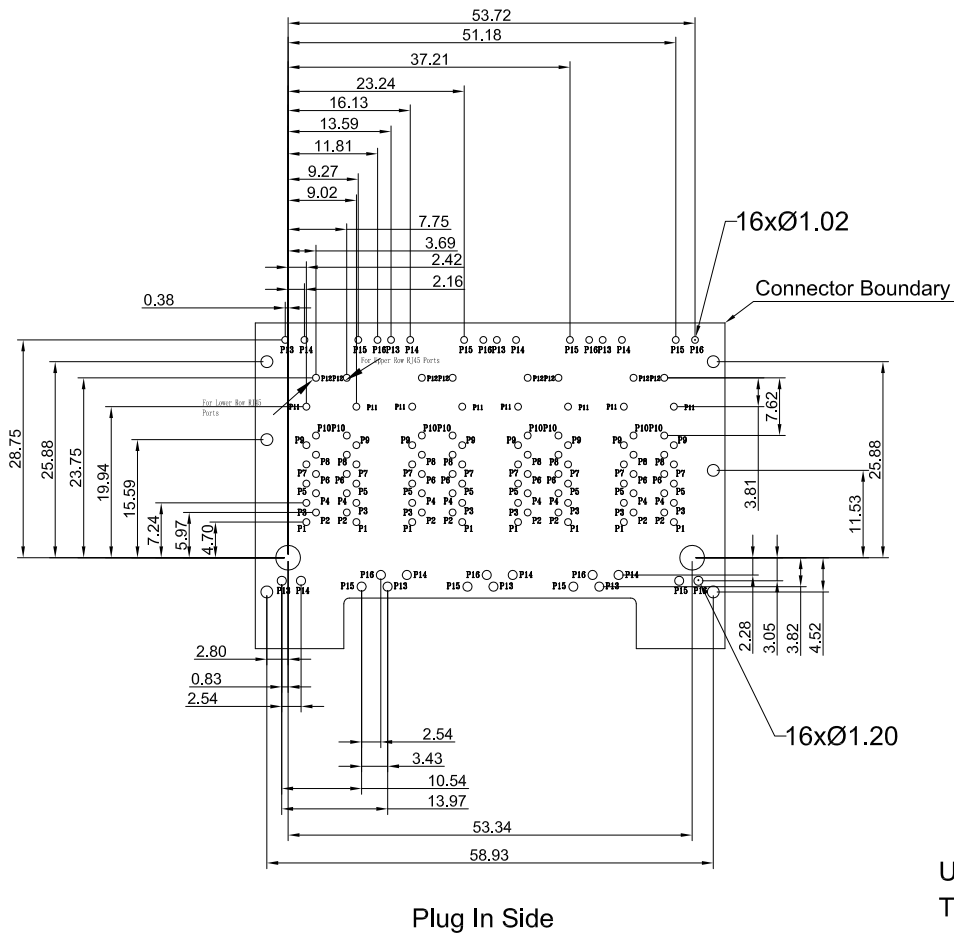
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5-3. Keep-Out Area (Component Side View):



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



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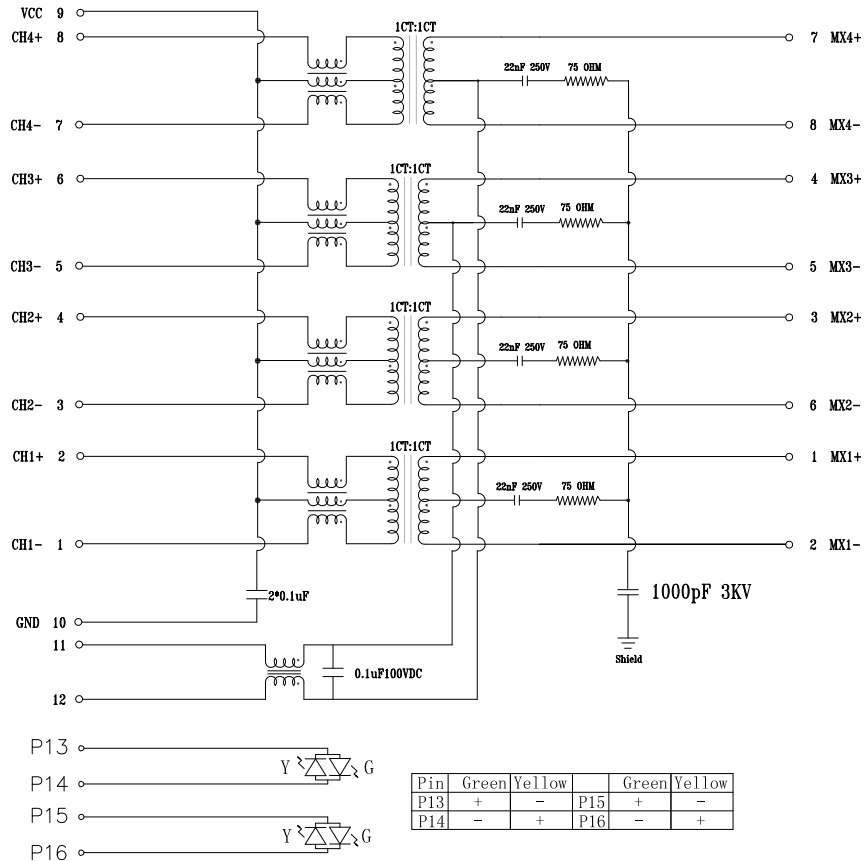
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6. Circuit Schematic and Electrical Specifications:

6-1. Circuit Schematic:



6-2. Electrical Specifications:

- Turn Ratio @100KHz: $(P2 \sim P1):(J1 \sim J2) = 1:1 \pm 5\%$
 $(P4 \sim P3):(J3 \sim J6) = 1:1 \pm 5\%$
 $(P6 \sim P5):(J4 \sim J5) = 1:1 \pm 5\%$
 $(P8 \sim P7):(J7 \sim J8) = 1:1 \pm 5\%$
- Primary Inductance: 350uH MIN @ 100KHz, 0.1V, 8mA
120uH MIN @ 100KHz, 0.1V, 18mA
- DC Resistance: 1.2 OHMS MAX
- Insertion Loss: 1-100MHz -1.0dB MAX
100-125MHz -1.2dB MAX
- Return Loss: 1-40MHz -16dB MIN
40-60MHz -12dB MIN
60-80MHz -10dB MIN
80-100MHz -8dB MIN
- Cross Talk: 1-100MHz -30dB MIN
- COMMON TO COMMON MODE ATTENUATION: 1-100MHz -30dB MIN
- Isolation: PHY Side to Line Side: 2250VDC
- DC CURRENT/VOLTAGE RATING-PSE PINS: 600mA @57V(CONTINUOUS)