

CZT

SPECIFICATION FOR APPROVAL

CUSTOMER _____

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

DESCRIPTION _____ **RJ45 ICM (10/100 Base-T 1 Port)**

CZT'S PART NO. _____ **JDFU11942301** **REV.** **A**

CZT OLD P/N _____

ISSUE NO. _____ **18B-418**

ISSUE DATE _____ **SEP.25,2018**

☐ **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.**

SPECIFICATION FOR APPROVAL

Customer Part No.:
CZT Part No.: JDFU11942301
Part Name: RJ45 ICM (10/100 Base-T 1 Port)

Rev.: A



| Rev | Description | Drawn | Designed | Approved | Issue Date |
|-----|-------------|----------|----------|------------|-------------|
| A | New Release | Alin Yao | / | David Chan | SEP.25,2018 |
| | | | | | |

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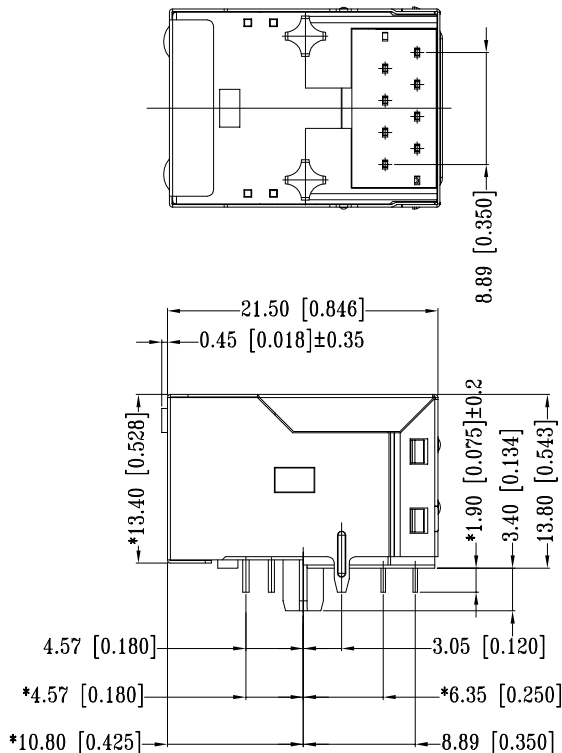
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Part Name: RJ45 ICM (10/100 Base-T 1 Port)

Rev.: A

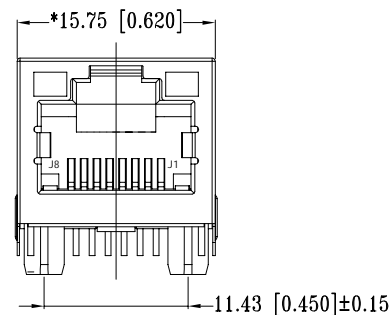


4. Mechanical Dimension and Notes:

4-1. Mechanical Dimension:



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



4-2. Notes:

- CONNECTOR MATERIAL:
HOUSING: LCP BLACK UL94 V-0
INSERT: LCP BLACK UL94 V-0
SHIELD: Brass
SHIELD PLATING: NICKEL
CONTACT: COOPER ALLOY
CONTACT PLATING: SELECTIVE GOLD, 6 MICRO-INCHS 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 IR REFLOW SOLDERING PROCESS PEAK SOLDERING TEMPERATURE IS 260° C MAX, 10 SECS MAX
- OPERATING TEMPERATURE T=0° C TO +70° C.
- STORAGE TEMPERATURE T=-40° C TO +85° C.
- ALL CRITICAL DIMENSIONS WITH ***

| LED SPECIFICATION | | | |
|-------------------|------------|----------------|------|
| STANDARD LED | WAVELENGTH | Forward V(max) | TYP |
| GREEN | 565nm | 2.4V | 2.2V |
| YELLOW | 590nm | 2.5V | 2.1V |

*WITH A FORWARD CURRENT OF 20mA


Drawn by

Designed by

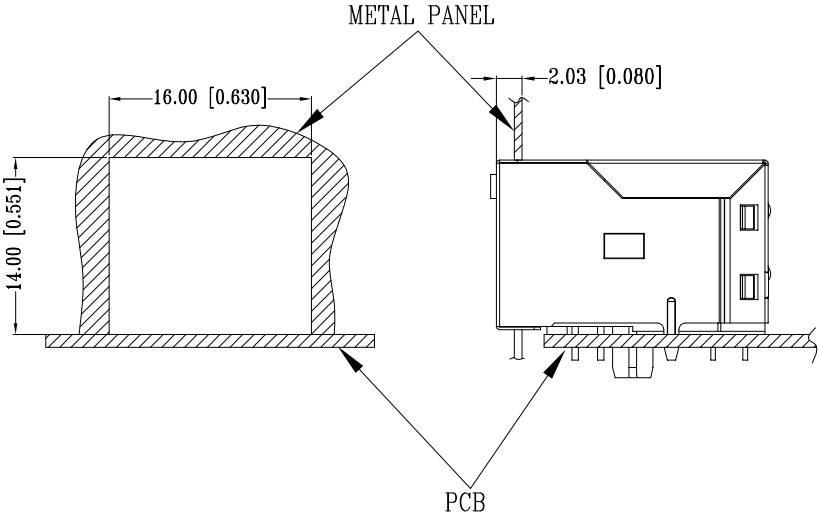
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|--|---|
| Customer Part No.: CZT Part No.: JDFU11942301 Part Name: RJ45 ICM (10/100 Base-T 1 Port) | Rev.: A |
| |  |

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




UNIT: mm / inch
Tolerances: ± 0.10 / 0.004

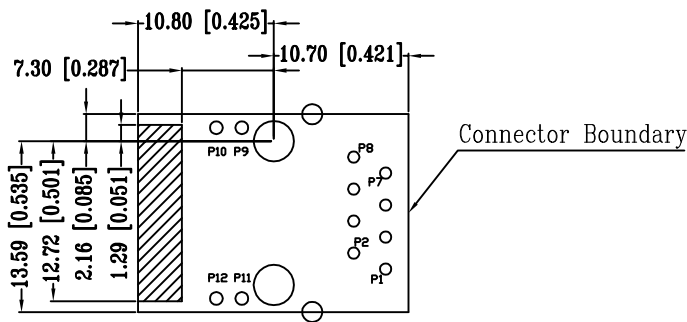
REFERENCE ONLY

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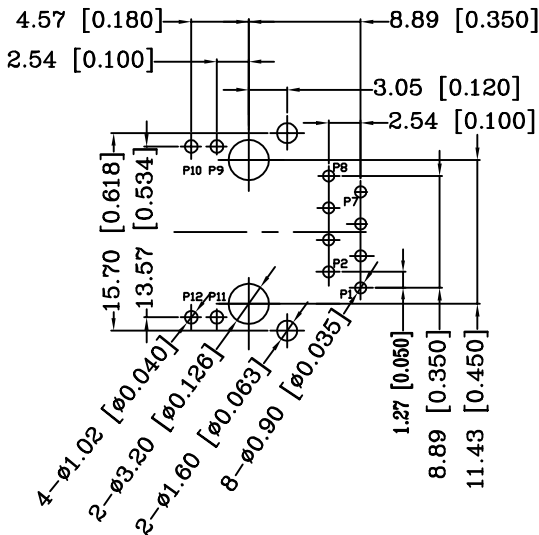
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|--|---|
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| |  |

5-2. Keep-Out Area (Component Side View):



UNIT: mm / inch
Tolerances: ± 0.10 / 0.004

5-3. Recommended PWB Layout (Component Side View):



UNIT: mm / inch
Tolerances: ± 0.10 / 0.004

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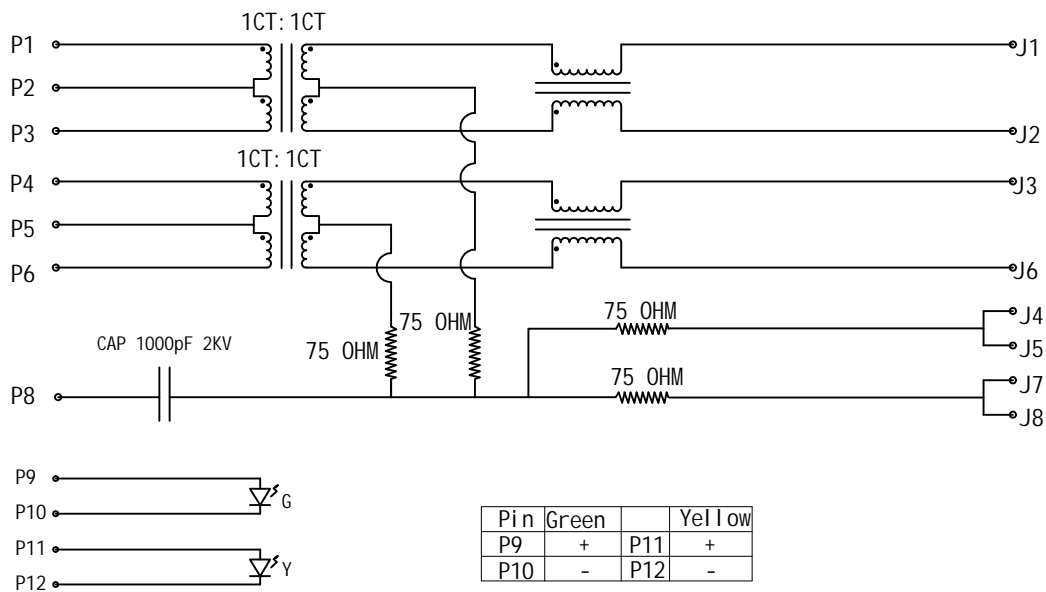
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6. Circuit Schematic and Electrical Specifications:

6-1. Circuit Schematic:



6-2. Electronical Specifications:

- | | | |
|-----|------------------------------------|------------------------------------|
| 1.0 | Turn Ratio @100KHz: | (P1~P3):(J1~J2) = 1:1±5% |
| | | (P4~P6):(J3~J6) = 1:1±5% |
| 2.0 | Primary Inductance: | 350uH MIN @100KHZ,0.1V 8mA DC BIAS |
| 3.0 | DC Resistance:(J1~J2):(J3~J6) | 1.2 OHMS MAX |
| 4.0 | Insertion Loss: | 1-100MHz -1.2dB MAX |
| 5.0 | Return Loss: | 1-30MHz -16dB MIN |
| | | 30-60MHz -12dB MIN |
| | | 60-80MHz -10dB 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: | 1500VAC or 2250VDC |