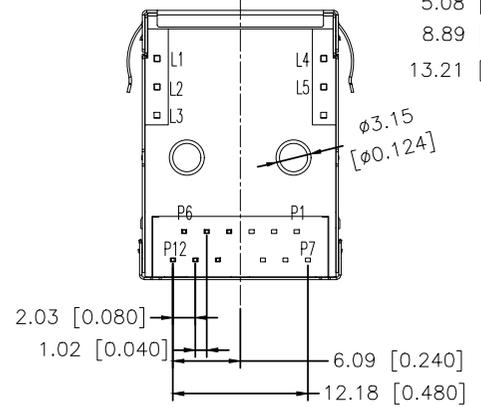
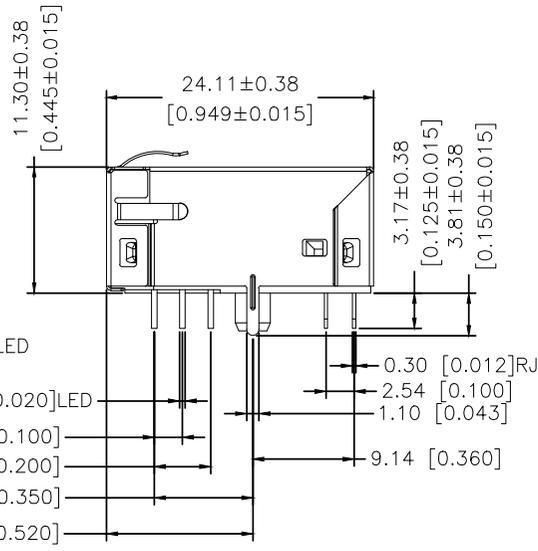
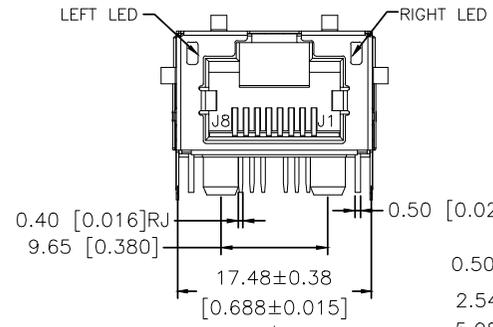
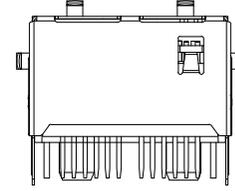
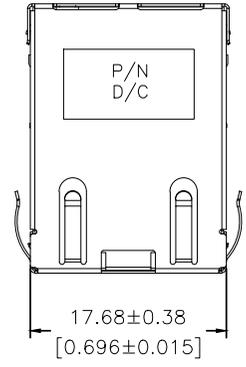




MECHANICAL DRAWINGS:

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|---------|--|
| 7 | 8 |
| REV: A0 | ECN. NO.: ----- NAME: NEW RELEASE DATE: 04-22-2024 |



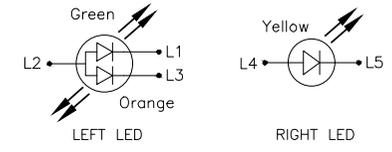
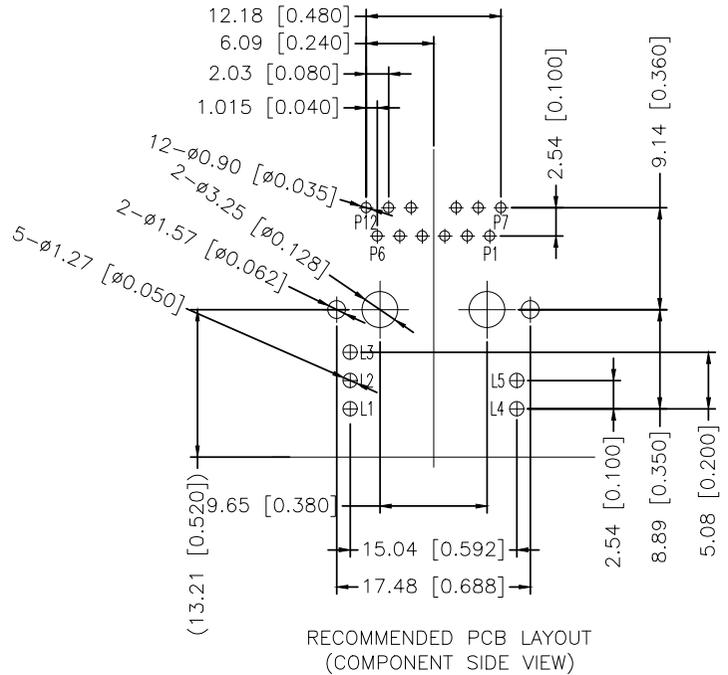
| | | | | | |
|---|----------|--|---------------|---------------------------|---------|
| GENERAL TOLERANCE .X±0.38 X°±2° .XX±0.20 X°±1° .XXX± | | VITALCON a vital connector company | | FOR YOUR VITAL CONNECTION | |
| TITLE: | | RJ45 ICM,1000BASE - T,W/LED | | | |
| DRAWN BY: | Zou Long | PART NO: | J11HG45P3DNF7 | REV: A0 | |
| CHECKED BY: | Bob | SIZE: A1 | UNIT:mm | SHEET:1 OF 4 | FCN: F7 |
| APPROVED BY: | QPF | PROJECTION | | http://www.vitalconn.com | |

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| REV: | ECN. NO. | NAME | DATE |
| A0 | ----- | NEW RELEASE | 04-22-2024 |

PCB LAYOUT & LED ILLUSTRATE:



| Emitting Color | λ_p (nm) | V_f @ $I_f=20mA$ | I_r @ $V_r=5V$ |
|----------------|------------------|--------------------|------------------|
| Green | 568 | 1.7V~2.6V | 10 μ A max. |
| Yellow | 588 | 1.7V~2.6V | 10 μ A max. |
| Orange | 605 | 1.7V~2.6V | 10 μ A max. |

RECOMMENDED PCB LAYOUT
(COMPONENT SIDE VIEW)

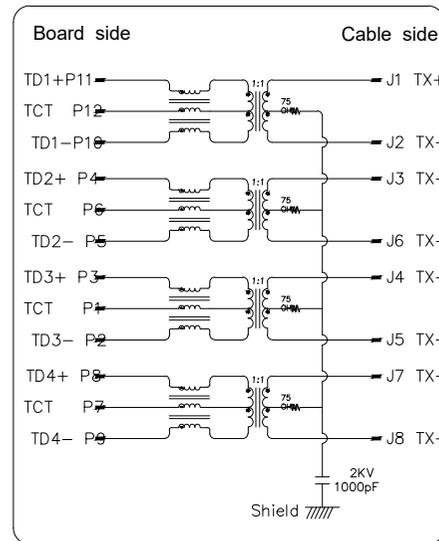
For technical support, please send an email to support@vitalconn.com

| | | | | | |
|--|----------|--|---------------|---|---------|
| GENERAL TOLERANCE .X \pm 0.38 X $^\circ$ \pm 2 $^\circ$.XX \pm 0.20 X $^\circ$ \pm 1 $^\circ$.XXX \pm | | VITALCON a vital connector company | | FOR YOUR VITAL CONNECTION | |
| TITLE: | | RJ45 ICM,1000BASE - T,W/LED | | | |
| DRAWN BY: | Zou Long | PART NO: | J11HG45P3DNF7 | REV: A0 | |
| CHECKED BY: | Bob | SIZE: A1 | UNIT:mm | SHEET:2 OF 4 | FCN: F7 |
| APPROVED BY: | QPF | PROJECTION | | http://www.vitalconn.com | |



| REV: | ECN. NO. | NAME | DATE |
|------|----------|-------------|------------|
| A0 | ----- | NEW RELEASE | 04-22-2024 |

SCHEMATIC:



ELECTRICAL CHARACTERISTICS :

- INSERTION LOSS :
- 1~100 MHz -1.0dB MAX.
- RETURN LOSS(LOAD 100Ω) :
- 1~40 MHz -18dB MIN
- 40~100 MHz -12+20LOG(f/80MHz)dB MIN
- COMMON MODE REJECTION
- 1~100 MHz -30dB MIN
- CROSS TALK
- 1~100 MHz -30dB MIN
- INDUCTANCE @ 100KHz, 0.1V, 8mA DC BIAS
- (P11-P10),(P4-P5),(P3-P2),(P8-P9) : 350 uH MIN
- HI-POT TEST
- PCB SIDE TO CABLE SIDE : 1500VAC 60S OR 2250VDC 60S
- URNS RATION 100KHz
- (P11-P10) : (J1-J2) = 1:1 ±%3
- (P4-P5) : (J3-J6) = 1:1 ±%3
- (P3-P2) : (J4-J5) = 1:1 ±%3
- (P8-P9) : (J7-J8) = 1:1 ±%3

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|---|----------|---|---------------|---------------------------|---------|
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| TITLE: | | RJ45 ICM,1000BASE - T,W/LED | | | |
| DRAWN BY: | Zou Long | PART NO: | J11HG45P3DNF7 | REV: A0 | |
| CHECKED BY: | Bob | SIZE: A1 | UNIT:mm | SHEET:3 OF 4 | FCN: F7 |
| APPROVED BY: | QPF | PROJECTION | | http://www.vitalconn.com | |

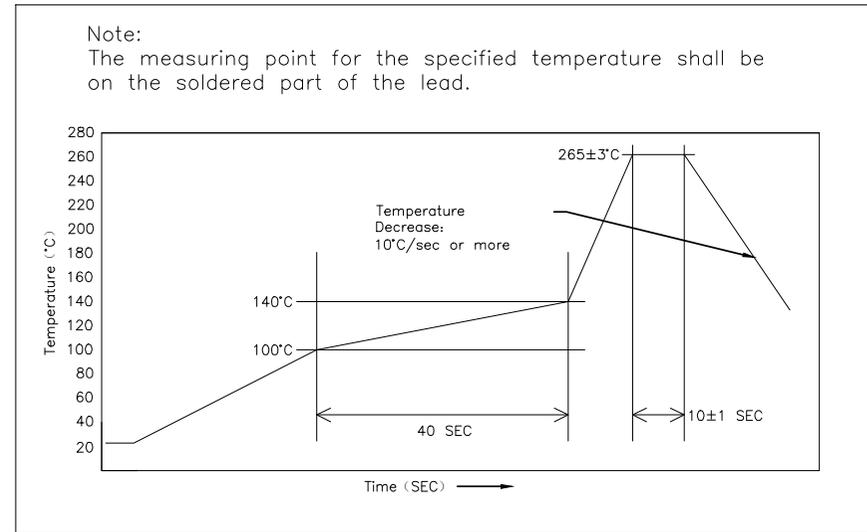
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| REV: | ECN. NO. | NAME | DATE |
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SPECIFICATIONS :

1. MATERIAL
 - HOUSING : THERMOPLASTIC, PA6T, UL 94V-0, BLACK,HSF
 - MODULE CASE : THERMOPLASTIC, UL 94V-0, BLACK,HSF
 - RJ CONTACTS : PHOSPHOR BRONZE, C5210R-H
PLATING : SELECT GOLD ON CONTACT AREA (SEE PART NO),
100U" MIN TIN PLATING ON SOLDER TAILS, 30U"MIN NICKEL OVERALL
 - SOLDER TAIL TERMINAL : BRASS, C2680R-EH
PLATING : 100U" TIN MIN OVER 50U" NICKEL OVERALL
 - SHIELD : STAINLESS, SUS304-1/2H,THICKNESS=0.2MM, NICKEL PLATING
2. RJ45 SPECIFICATIONS
 - INSULATION RESISTANCE : 500 MOHMS MIN
 - INSERTION FORCE WITH THE LATCH DEPRESSED :22N MAX
 - REMOVAL FORCE WITH THE LATCH DEPRESSED :44N MAX
 - DURABILITY :750 CYCLES
3. OPERATING AND STORAGE TEMPERATURE
 - OPERATING TEMPERATURE : 0°C TO +70°C
 - STORAGE TEMPERATURE : -40°C TO +85°C
4. TEMPERATURE CONDITION OF WAVE SOLDERING:



| | | | | | |
|--|----------|--|---------------|---------------------------|---------|
| GENERAL TOLERANCE .X±0.38 X°±2° .XX±0.20 X°±1° .XXX± | | VITALCON a vital connector company | | FOR YOUR VITAL CONNECTION | |
| TITLE: | | RJ45 ICM,1000BASE - T,W/LED | | | |
| DRAWN BY: | Zou Long | PART NO: | J11HG45P3DNF7 | REV: A0 | |
| CHECKED BY: | Bob | SIZE: A1 | UNIT:mm | SHEET:4 OF 4 | FCN: F7 |
| APPROVED BY: | QPF | PROJECTION | | http://www.vitalconn.com | |

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