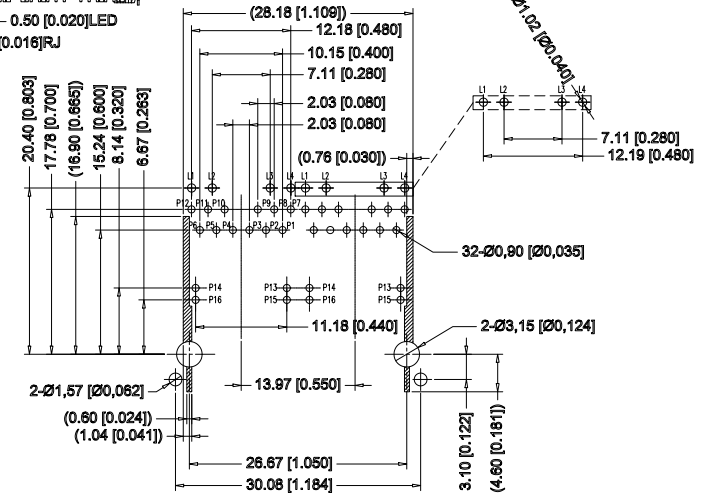
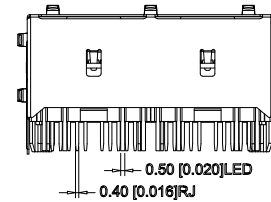
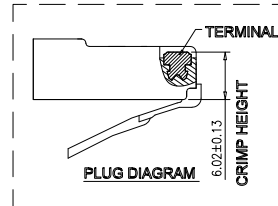
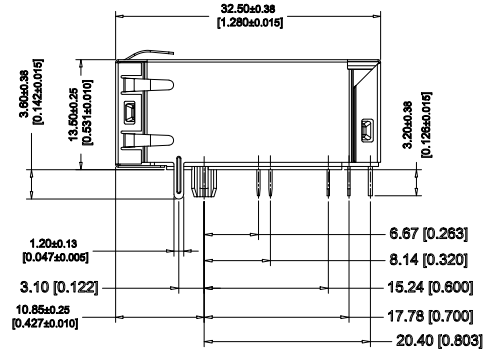
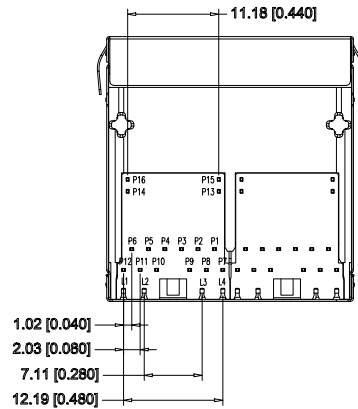
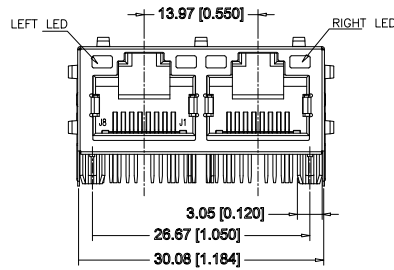
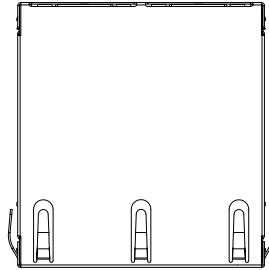




1. MECHANICAL DIMENSIONS:



RECOMMENDED PCB LAYOUT TOP VIEW
THICKNESS=1.6MM, TOLERANCE=0.05MM



TOLERANCE	
.X	±0.38
.XX	±0.25
.XXX	±0.15
ANGLE	±0.50°



勇于创新，志在连接
FOR YOUR VITAL CONNECTION

TITLE: RJ45 ICM,1000BASE-T W/POE 90W

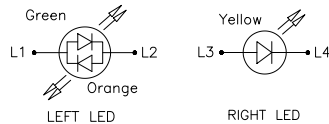
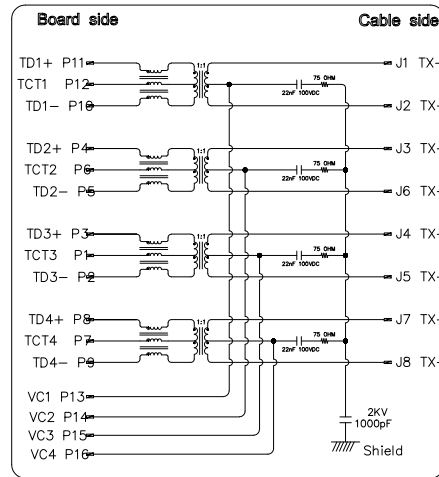
DRAWN BY:	Zou Long	PART NO:	J12RB15N7DNF7	REV: A1
CHECKED BY:	Bob	SIZE: A4	UNIT:mm	SHEET:1 OF 2
APPROVED BY:	QPF	PROJECTION	http://www.vitalconn.com	FCN: F7

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



REV:	ECN. NO.	NAME	DATE
A0	-----	-----	03-20-2024
A1	-----	Housing Update	06-23-2025

2. SCHEMATIC:



3. ELECTRICAL CHARACTERISTICS :

1. INSERTION LOSS :

- 1~100 MHz -1.0dB MAX.

2. RETURN LOSS(LOAD 100Ω) :

- 1~40 MHz -18dB MIN

- 40~100 MHz -12+20LOG(f/80MHz)dB MIN

3. COMMON MODE REJECTION

- 1~100 MHz -30dB MIN

4. CROSS TALK

- 1~100 MHz -30dB MIN

5. INDUCTANCE @ 100KHz, 0.1V, 11mA DC BIAS

- (P11-P10),(P4-P5),(P3-P2),(P8-P9) : 350 uH MIN

6. HI-POT TEST

- PCB SIDE(P1.P2...P12) TO CABLE SIDE : 2250VDC 60S

7. TURNS 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%

8. BALANCED DC LINE CURRENT

- 960mA MAX@57VDC CONTINUOUS

(FOR ANY TWO OF FOUR AVAILABLE PAIRS)

4. SPECIFICATIONS :

1. MATERIAL

- HOUSING : THERMOPLASTIC, PA6T,UL 94V-0, BLACK

- CASE : HIGH TEMPERATURE THERMOPLASTIC, LCP,UL 94V-0, BLACK

- RJ CONTACTS : PHOSPHOR BRONZE

PLATING : 50± GOLD ON CONTACT AREA,

30U"MIN NICKEL OVERALL

- SOLDER TAIL TERMINAL : BRASS

PLATING : 100U" MIN TIN, 30U"MIN NICKEL OVERALL

- SHIELD : STAINLESS, THICKNESS=0.2MM, PRE-SOLDERING

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. SUGGESTED WAVE SOLDERING TEMPERATURE:

265±3°C FOR 10 SECONDS MAX.

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

TOLERANCE		VITALCON a vital connector company		勇于创新，志在连接 FOR YOUR VITAL CONNECTION	
. X	±0.38	TITLE:	RJ45 ICM,1000BASE-T W/POE 90W		
. XX	±0.25				
. XXX	±0.15				
ANGLE	±0.50°				
DRAWN BY:	Zou Long	PART NO:	J12RB15N7DNF7		REV: A1
CHECKED BY:	Bob	SIZE: A4	UNIT:mm	SHEET:2 OF 2	FCN: F7
APPROVED BY:	QPF	PROJECTION			http://www.vitalconn.com