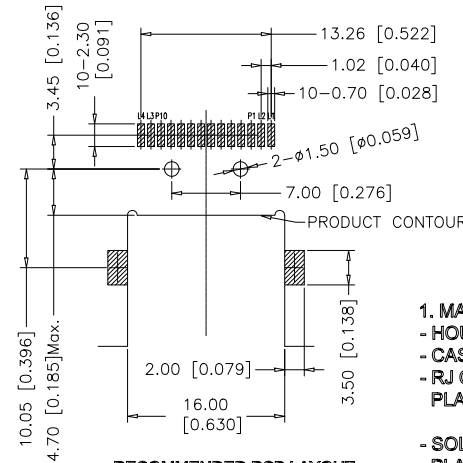
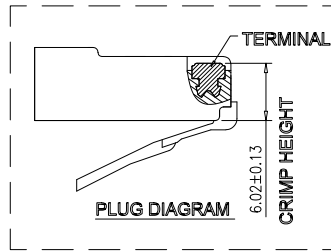
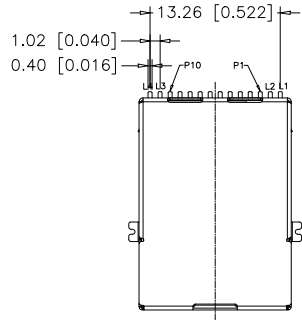




REV:	ECN. NO.	NAME	DATE
A0	----	-----	07-10-2026

1. MECHANICAL DIMENSIONS:



RECOMMENDED PCB LAYOUT
(COMPONENT SIDE VIEW)

1. MATERIAL

- HOUSING : HIGH TEMPERATURE THERMOPLASTIC, UL 94V-0, LCP,BLACK,HSF
- CASE : HIGH TEMPERATURE THERMOPLASTIC, UL 94V-0, LCP BLACK,HSF
- RJ CONTACTS : PHOSPHOR BRONZE
- PLATING : 6u" GOLD ON CONTACT AREA
30U"MIN NICKEL OVERALL
- SOLDER TAIL TERMINAL : BRASS
- PLATING : 100U" TIN MIN OVER 30U"MIN NICKEL OVERALL
- SHIELD : SUS304, THICKNESS=0.2MM
- PLATING : 30U"MIN NICKEL OVERALL

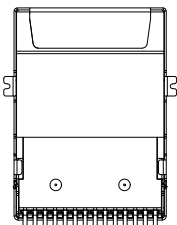
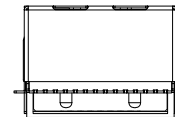
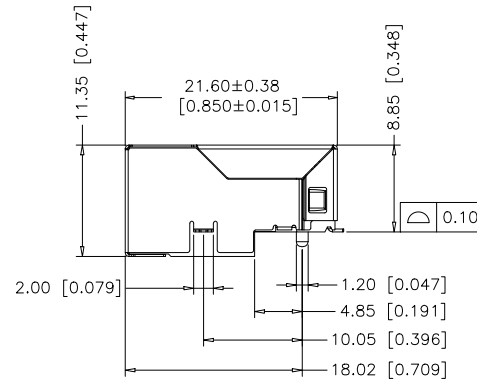
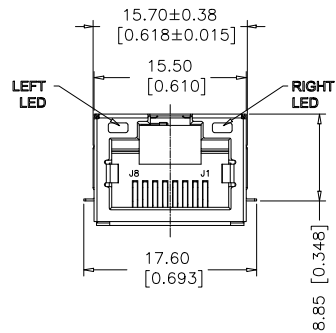
2. RJ45 SPECIFICATIONS

- 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 : -40°C TO +85°C
- STORAGE TEMPERATURE : -40°C TO +85°C

4. SUGGESTED TEMPERATURE CONDITION OF REFLOW SOLDERING:
260±3°C FOR 10 SECONDS MAX.



TOLERANCE

0.000mm ± 0.15mm
0.00mm ± 0.25mm
0.0mm ± 0.38mm



FOR YOUR
VITAL CONNECTION

TITLE:

RJ45 ICM,1GBASE-T,W/LED

DRAWN BY:

Zou Long

PART NO:

J11SG4143NLC7

SHEET:

1 OF 2

REV: A0

CHECKED BY:

Bob

DWG NO:

VTC-TZ-00197

SIZE: A4

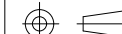
UNIT:mm

FCN: C7

APPROVED BY:

QPF

PROJECTION:



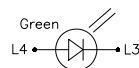
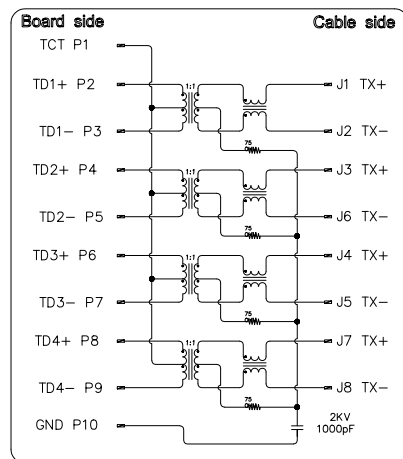
<http://www.vitalconn.com>

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

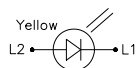


REV:	ECN. NO.	NAME	DATE
A0	-----	-----	07-10-2026

2. SCHEMATIC:



LEFT LED



RIGHT LED

Emitting Color	λ_p (nm)	V_f @ $I_f=20mA$	I_r @ $V_r=5V$
Green	568	1.7V~2.6V	10 μA max.
Yellow	588	1.7V~2.6V	10 μA max.

3. ELECTRICAL CHARACTERISTICS :

1. INSERTION LOSS :

- 1~100 MHz -1.0dB MAX.

2. RETURN LOSS(LOAD 100 Ω) :

- 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, 8mA DC BIAS

- (P2-P3),(P4-P5),(P6-P7),(P8-P9) : 350 uH MIN

6. HI-POT TEST

- BOARD SIDE TO CABLE SIDE : 2250VDC 60S

7. TURNS RATION 100KHz

- (P2-P3) : (J1-J2) = 1:1 $\pm$ 3%

- (P4-P5) : (J3-J6) = 1:1 $\pm$ 3%

- (P6-P7) : (J4-J5) = 1:1 $\pm$ 3%

- (P8-P9) : (J7-J8) = 1:1 $\pm$ 3%

TOLERANCE
0.000mm $\pm$ 0.15mm
0.00mm $\pm$ 0.25mm
0.0mm $\pm$ 0.38mm



FOR YOUR
VITAL CONNECTION

TITLE:

RJ45 ICM,1GBASE-T,W/LED

DRAWN BY: Zou Long

PART NO: J11SG4143NLC7

SHEET: 2 OF 2

REV: A0

CHECKED BY: Bob

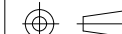
DWG NO: VTC-TZ-00197

SIZE: A4 UNIT:mm

FCN: C7

APPROVED BY: QPF

PROJECTION:



<http://www.vitalconn.com>

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