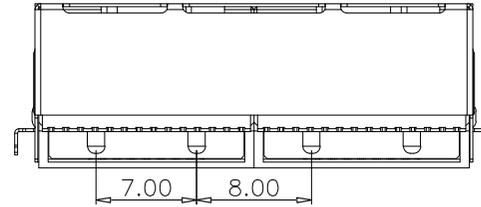
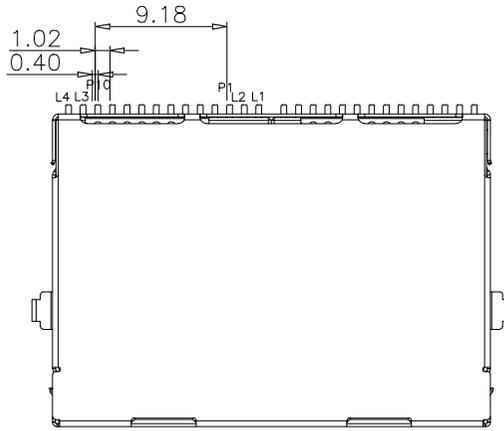


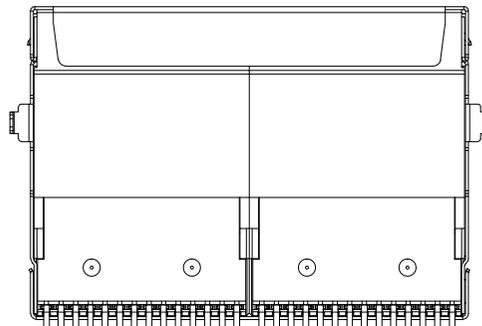
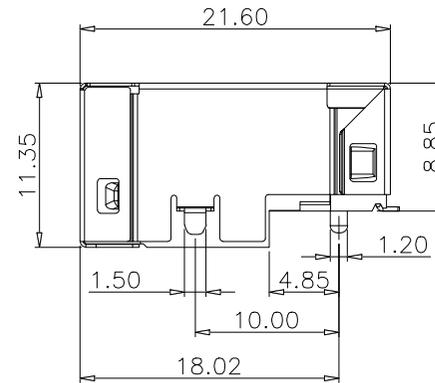
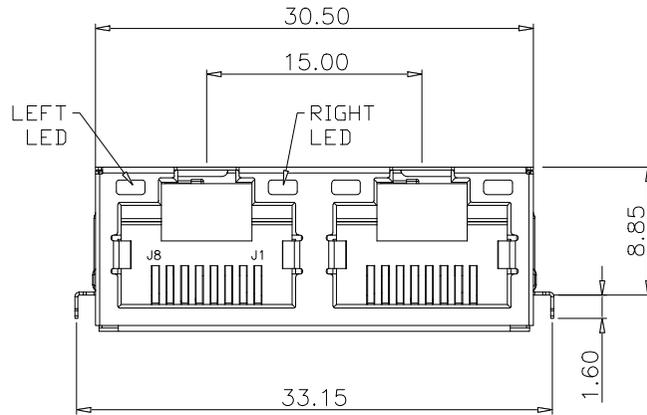


MECHANICAL DRAWINGS:

REV:	ECN. NO.	NAME	DATE



BACK VIEW



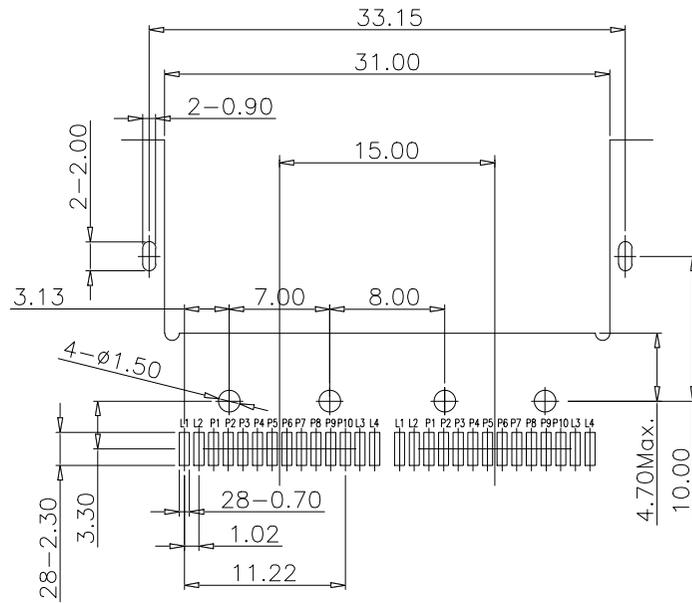
GENERAL TOLERANCE .X±0.38 X.°±1° .XX±0.20 X.°±0.5° .XXX		 a vital connector company		FOR YOUR VITAL CONNECTION	
TITLE:		RJ45 1X2 1000M W/LED,SMT			
DRAWN BY:	Zou Long	PART NO:	J12SG4141NLF7	REV: A	
CHECKED BY:	Bob	SIZE: A4	UNIT:mm	SHEET:1 OF 4	FCN: F7
APPROVED BY:	QPF	PROJECTION		http://www.vitalconn.com	

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

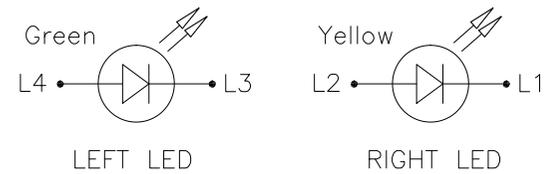


REV:	ECN. NO.	NAME	DATE

PCB LAYOUT & LED ILLUSTRATE:



Recommended PCB Layout  
(T=1.60mm, Tol:±0.05)



Emitting Color	p (nm)	Vf	Ir @Vr=5V
Green	565	1.7V~2.6V	10 A max.
Yellow	585	1.7V~2.6V	10 A max.

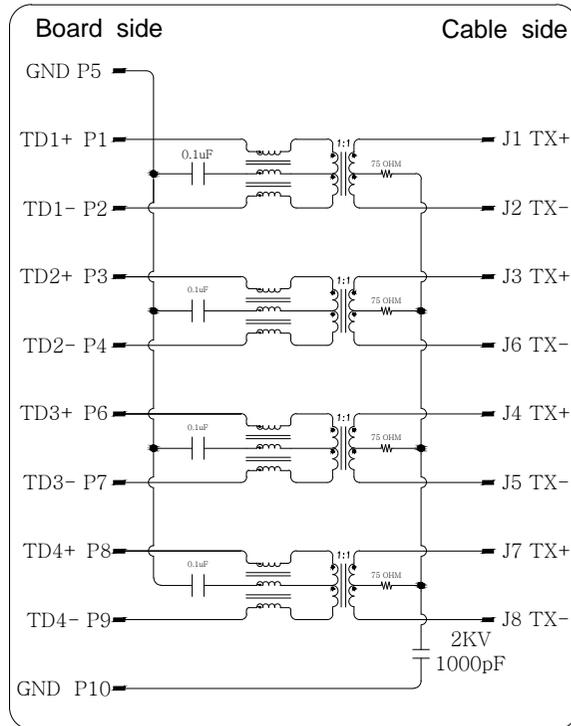
GENERAL TOLERANCE .X±0.38 X.°±1° .XX±0.20 X.°±0.5° .XXX		 a vital connector company		FOR YOUR VITAL CONNECTION	
TITLE:		RJ45 1X2 1000M W/LED,SMT			
DRAWN BY:	Zou Long	PART NO:	J12SG4141NLF7	REV: A	
CHECKED BY:	Bob	SIZE: A4	UNIT:mm	SHEET:2 OF 4	FCN: F7
APPROVED BY:	QPF	PROJECTION		http://www.vitalconn.com	

For technical support, please send an email to [support@vitalconn.com](mailto:support@vitalconn.com)



REV:	ECN. NO.	NAME	DATE

SCHEMATIC:



ELECTRICAL CHARACTERISTICS :

- INSERTION LOSS :  
- 1~100 MHz -1.0dB MAX.
- RETURN LOSS(LOAD 100 ) :  
- 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  
- (P1-P2),(P3-P4),(P6-P7),(P8-P9) : 350 H MIN
- HI-POT TEST  
- PCB SIDE TO CABLE SIDE : 1500VAC 60S OR 2250VDC 60S
- URNS RATION 100KHz  
- (P1-P2) : (J1-J2) = 1:1 ±%3  
- (P3-P4) : (J3-J6) = 1:1 ±%3  
- (P6-P7) : (J4-J5) = 1:1 ±%3  
- (P8-P9) : (J7-J8) = 1:1 ±%3

GENERAL TOLERANCE .X±0.38 X.°±1° .XX±0.20 X.°±0.5° .XXX		<b>VITALCON</b> a vital connector company		FOR YOUR VITAL CONNECTION	
DRAWN BY: Zou Long		TITLE: RJ45 1X2 1000M W/LED,SMT		PART NO: J12SG4141NLF7	
CHECKED BY: Bob		SIZE: A4		UNIT:mm	
APPROVED BY: QPF		PROJECTION		SHEET:3 OF 4	
				FCN: F7	
				http://www.vitalconn.com	

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



7		8	
REV:	ECN. NO.	NAME	DATE

SPECIFICATIONS :

1. MATERIAL

- HOUSING : HIGH TEMPERATURE THERMOPLASTIC, UL 94V-0, LCP BLACK,HSF
- MODULE CASE : HIGH TEMPERATURE THERMOPLASTIC, UL 94V-0, LCP BLACK,HSF
- RJ CONTACTS : PHOSPHOR BRONZE

PLATING : GOLD FLASH ON CONTACT AREA

100U'' MIN TIN PLATING ON SOLDER TAILS, 30U''MIN NICKEL OVERALL

- SOLDER TAIL TERMINAL : BRASS
- PLATING : 100U'' TIN MIN OVER 30U''MIN NICKEL OVERALL
- SHIELD : BRASS, 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

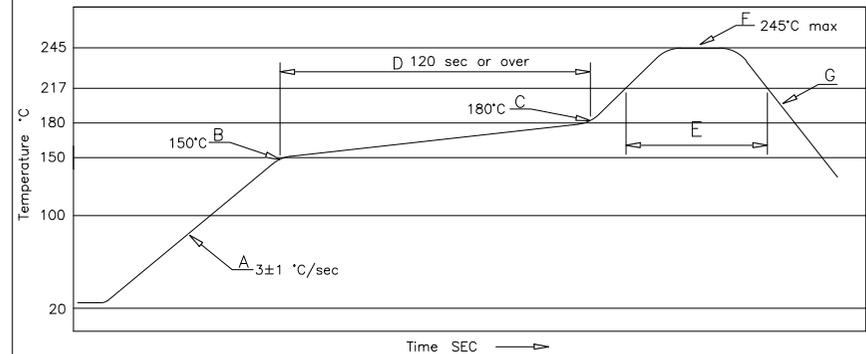
3. OPERATING AND STORAGE TEMPERATURE

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

4. TEMPERATURE CONDITION OF REFLOW SOLDERING:

Contents	Soldering Condition
A: Increasing speed	3±1 °C/sec
B: Pre-heat starting speed	150°C
C: Pre-heat ending speed	180°C
D: Pre-heat interval	120 sec or over
E: Over 217°C time	60~150sec
F: Peak Temperature	245°C max
G: Ramp down rate	6°C/sec max

Note:  
Type of lead-free solder should be 96.5Sn-3.0Ag-0.5Cu or 99.3Sn-0.7Cu.



GENERAL TOLERANCE  
.X±0.38 X.°±1°  
.XX±0.20 X.°±0.5°  
.XXX



FOR YOUR  
VITAL CONNECTION

TITLE: RJ45 1X2 1000M W/LED,SMT

DRAWN BY: Zou Long PART NO: J12SG4141NLF7 REV: A

CHECKED BY: Bob SIZE: A4 UNIT:mm SHEET:4 OF 4 FCN: F7

For technical support, please send an email to support@vitalconn.com APPROVED BY: QPF PROJECTION http://www.vitalconn.com