

MECHANICAL:

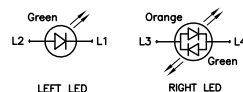
SPECIFICATIONS :

- MATERIAL
 - HOUSING&SPACER&RJ BASE : THERMOPLASTIC, UL 94V-0, BLACK
 - MODULE CASE : THERMOPLASTIC, UL 94V-0, BLACK
 - LIGHT PIPE : PC UL 94V-0, TRANSPERENT
 - RJ CONTACTS : BRASS
 - PLATING : 30U" GOLD ON CONTACT AREA, 100U" MIN TIN PLATING ON SOLDER TAILS, 30U"MIN NICKEL OVERALL
 - SOLDER TAIL TERMINAL : BRASS, PLATING : 100U" TIN MIN 30U"MIN NICKEL OVERALL
 - MODULE TERMINAL : SPCC, PLATING : 100U" TIN MIN OVER 50U" NICKEL OVERALL
 - SHIELD : STAINLESS, THICKNESS=0.2MM, PRE-SOLDERING

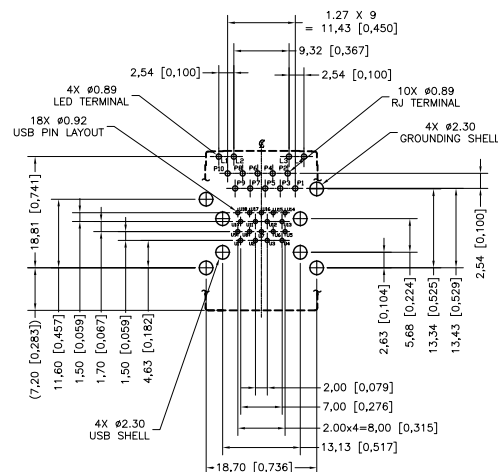
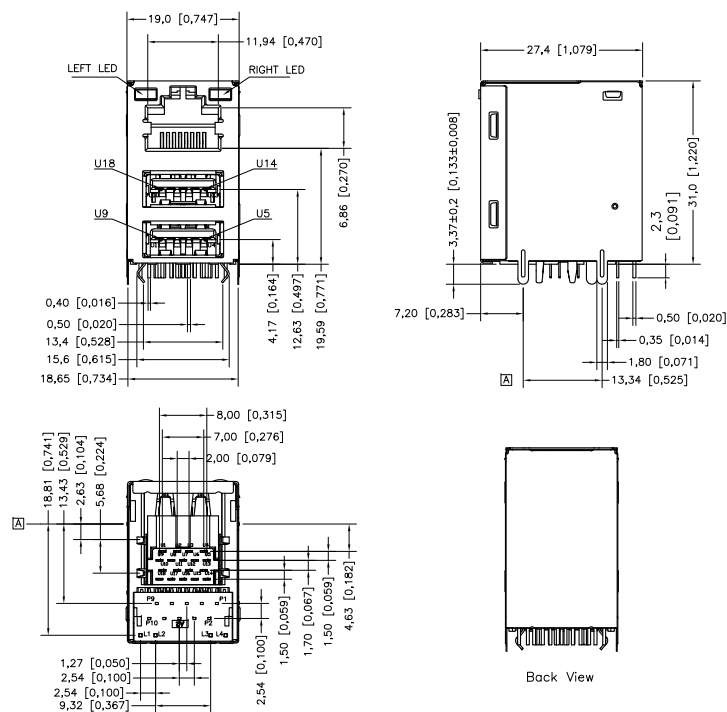
- RJ45 SPECIFICATIONS
 - INSULATION RESISTANCE : 500 MOHMS MIN
 - INSERTION FORCE WITH THE LATCH DEPRESSED :22N MAX
 - REMOVAL FORCE WITH THE LATCH DEPRESSED :44N MAX
 - DURABILITY :750 CYCLES

- USB SPECIFICATIONS
 - INSERTION FORCE :35N MAX
 - REMOVAL FORCE :10N MIN
 - DURABILITY :1500 CYCLES
 - INSULATION RESISTANCE : 100MOHMS MIN
 - DIELECTRIC WITHSTANDING VOLTAGE : 100 VAC FOR 1 MINUTE

- OPERATING AND STORAGE TEMPERATURE
 - OPERATING TEMPERATURE : 0°C TO +70°C
 - STORAGE TEMPERATURE : -40°C TO +85°C



Emitting Color	λp (nm)	Vf @If=20mA	Ir @Vr=5V
Green	565	1.7V~2.6V	10μA max.
Yellow	585	1.7V~2.6V	10μA max.
Orange	610	1.7V~2.6V	10μA max.



RECOMMENDED PCB LAYOUT
COMPONENT SIDE PCB THICKNESS : 1.60mm
ALL DIMENSION TOLERANCE ARE ±0.05 UNLESS
OTHERWISE SPECIFIED

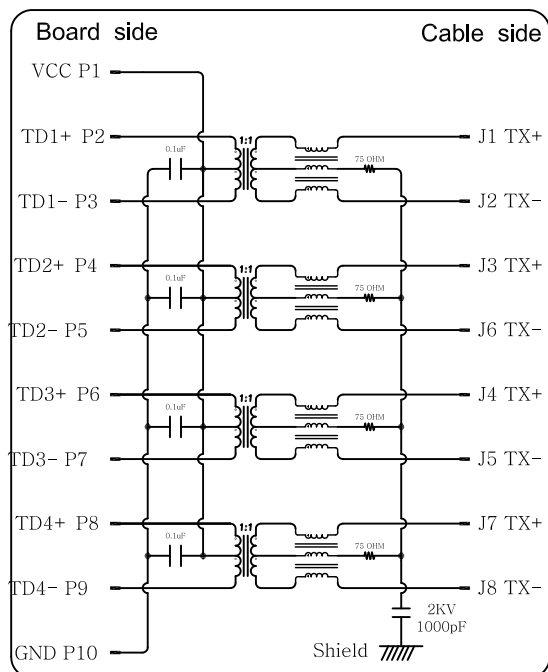


Champyang International Ltd., Co

A0	RELEASED	Allen	2019-05-30
REV	DESCRIPTION.	APPD.	Date

FILE NO : ARJ14(Series)		TITLE 圖 名		RJ45+USB 3.0 Connector With Transformer 1000Base, 3x1 Port		UNIT 單位	mm inch
TOLERANCE(公差): 0.000 mm ± 0.075 mm 0.00 mm ± 0.15 mm 0.0 mm ± 0.25 mm		PART NO. 料 號	ARJ14-0310U3-521-SOLBT2-A		SCALE 比例	1 : 1	
		DRAWN BY 製 圖	Ben	DATE 日期	2019-05-30	REV. 版本	A0
		CHECKED BY 審 核	Allen	DATE 日期	2019-05-30		

SCHEMATIC FOR RJ45:



ELECTRICAL CHARACTERISTICS :

1. INSERTION LOSS :
 - 1~100 MHz -1.0dB MAX.
2. RETURN LOSS(LOAD 100Ω) :
 - 1~30 MHz -18dB MIN
 - 30~60 MHz -16dB MIN
 - 60~80 MHz -12dB MIN
 - 80~100 MHz -10dB 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. DCR
 - (J1-J2),(J3-J6),(J4-J5),(J7-J8) : 1.2 ohm MAX
7. HI-POT TEST
 - BAORD SIDE TO CABLE SIDE : 1500VAC 60S OR 2250VDC 60S
8. TURNS RATION 100KHz
 - (P2-P3) : (J1-J2) = 1:1 ±%5
 - (P4-P5) : (J3-J6) = 1:1 ±%5
 - (P6-P7) : (J4-J5) = 1:1 ±%5
 - (P8-P9) : (J7-J8) = 1:1 ±%5



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