

# RJ45 CONNECTOR 8P

6234 SERIES



## Electrical

- Voltage rating: 125 VAC RMS
- Current rating: 1.5 AMP
- Contact resistance: 30 milliohms max
- Insulation resistance: 500 megaohms min 500 VDC
- Dielectric strength: 1000V AC RMS 50Hz or 60Hz 1min

## Mechanical

- Housing & insert material: PBT UL94V-0
- Contact material: Diameter 0.45mm phosphore bronze Gold plating over nickel
- Shield: 0.20 ~ 0.25mm thickness brass with tin plated
- Mating/unmating force: 2.2kg F max
- Retention strength: 7.7kg F min between jack and plug
- Operating life: 600 cycles min

## Environmental

- Storage: -10°C ~ +40°C relative humidity < 70%
- Operation: -40°C ~ +70°C

## Ordering Information

**6234D1 - 08 X X**

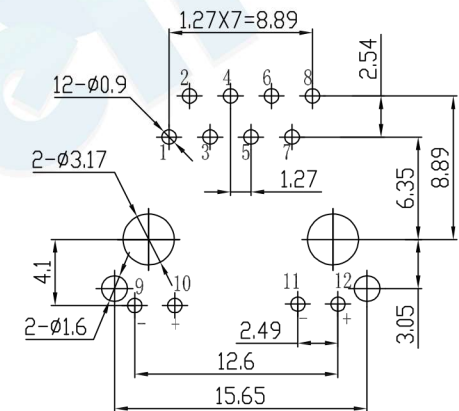
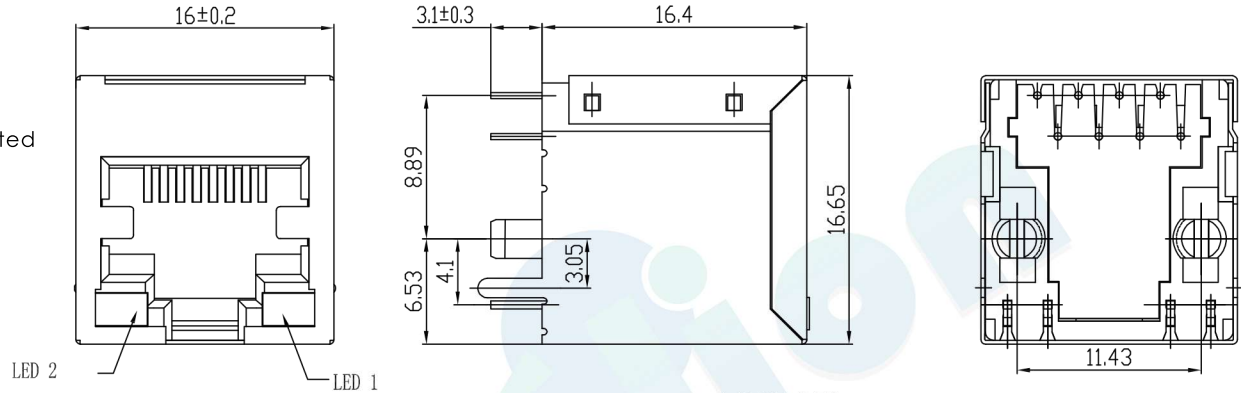
### 1. Connector Series

### 2. Contact Plating

- A = Gold Flash
- B = 3U" Gold
- C = 5U" Gold
- D = Gold Flash/Tin
- E = 3U" Gold/Tin
- F = 5U" Gold/Tin

### 3. Insulation material option

- A = PBT
- B = PA66
- C = PA6T
- D = PA9T
- E = LCP

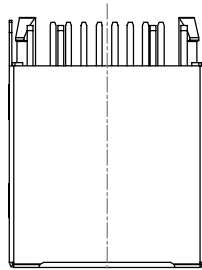


PC Board Layout

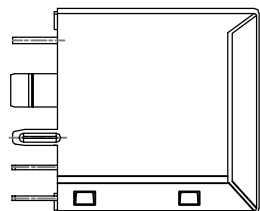
				OPERATION		DRAW	BEN	12.04.18	SCALE	FIT	 votre partenaire en électronique		
				X.X	$\pm 0.30$				UNIT	mm			
				X.XX	$\pm 0.20$	CHECK		SIZE	A4	PART NO.			6234D1 - 08XX
				X.XXX	$\pm 0.10$	APPROVE		SHEET	1/1	TITLE:			RJ45 8P8C connector 180° Dip
REV	DATE	MODIFICATION DESCRIPTION	CHANGE	DIM	TOL			PROJ.					

REACH & RoHS  
COMPLIANT

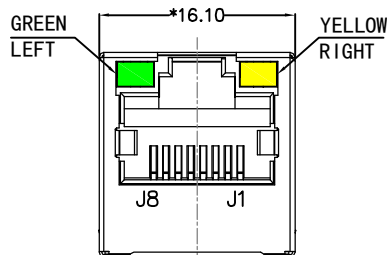
REV.	ECN / DESCRIPTION	BY	DATE
A0	NEW	MQ.Qu	2017.12.28



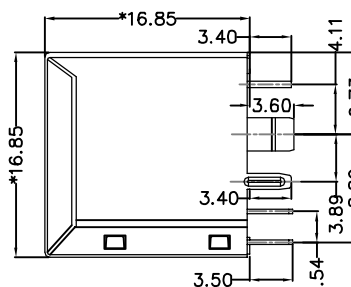
TOP VIEW



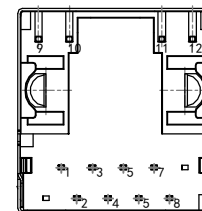
LEFT SIDE VIEW



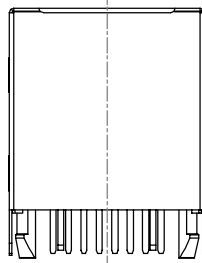
FRONT VIEW



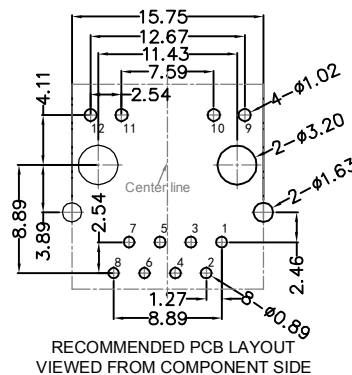
RIGHT SIDE VIEW



BACK VIEW



BOTTOM VIEW



**MATERIAL:**

HOUSING: PBT,UL94V-0,BLACK.  
 TERMINALS BRACKET: PBT,UL94V-0,BLACK.  
 SHIELD: C2680,T=0.20MM,NICKEL PLATING ON ALL AREA.  
 TERMINAL: PHOSPHOR BRONZE C5210,T=0.35MM,  
 6U" GOLD PLATING ON CONTACT AREA.

**MECHANICAL:**

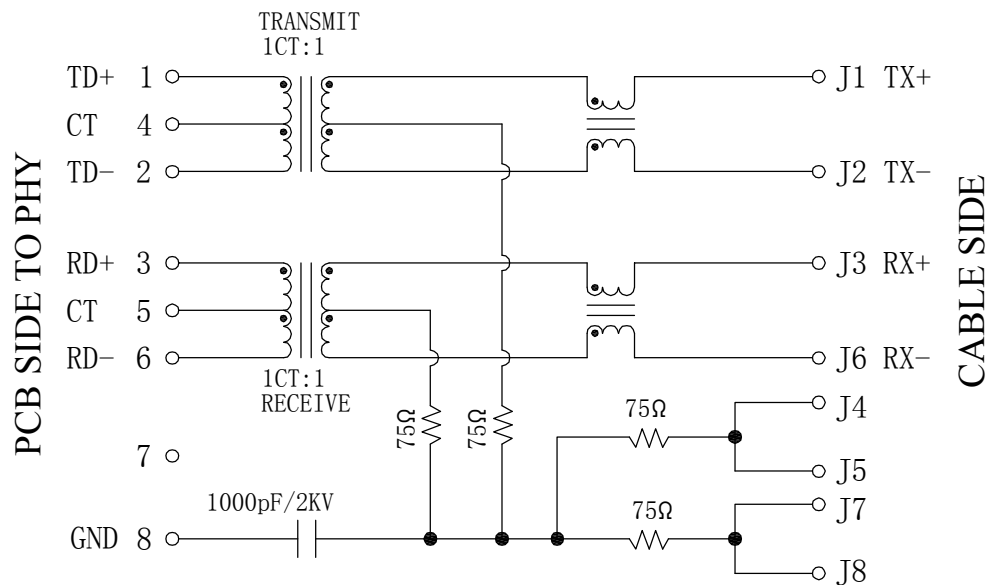
DURABILITY: 750 CYCLES MIN.  
 MATING FORCE : 30N MAX.  
 OPERATING TEMPERATURE: -40°C~+85°C.  
 STORAGE TEMPERATURE: -40°C~+85°C.  
 ALL CRITICAL DIMENSIONS WITH "\*"

CELION SAS

TITLE: 180° TAB-UP 1X1 100BASE	SIZE	A4	UNITS	MM[INCH]	GENERAL TOLERANCES UNLESS SPECIFIED		APPROVED BY: JP.Gong
	PART NO.:	511B002AC2A8D	SACLE	1:1	REV	A0	CHECKED BY: TW.Xu
	REMARK:		SHEET	1/3	DESIGND BY: MQ.Qu		
					.x±0.35	x°±3.0°	
					.x±0.30	.x°±2.0°	
					.xx±0.25	.xx°±1.5°	
					.xxx±0.10	.xxx°±1.0°	

REACH & RoHS  
COMPLIANT

REV.	ECN / DESCRIPTION	BY	DATE
A0	NEW	MQ.Qu	2017.12.28

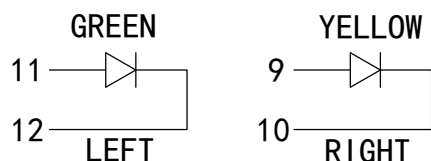


**Electrical:**

- Turn ratio: 1~2: J1~J2=1CT:1CT(±2%).  
3~6: J3~J6=1CT:1CT(±2%).
- OCL: 350uH Min. at 100KHz 100mV 8mA DC.
- Insertion Loss: -1.0 dB Max 1~100MHz.
- Return loss: -20dB Min 1~10MHz;  
-16dB Min 10~30MHz;  
-12dB Min 30~60MHz;  
-10dB Min 60~80MHz.
- Cross talk: -40dB Min 1~30MHz;  
-35dB Min 30~60MHz;  
-30dB Min 60~100MHz;
- CMR: -35dB Min 1~100MHz;
- Hi-Pot: 1500V AC & 2250V DC  
6S 1mA PRI TO SEC

**LED Specification**

Standard LED Color	LED Wavelength	Foward(A)	Foward(V)
Green	568nm	20mA	1.8-2.8V
Yellow	585nm	20mA	1.8-2.8V



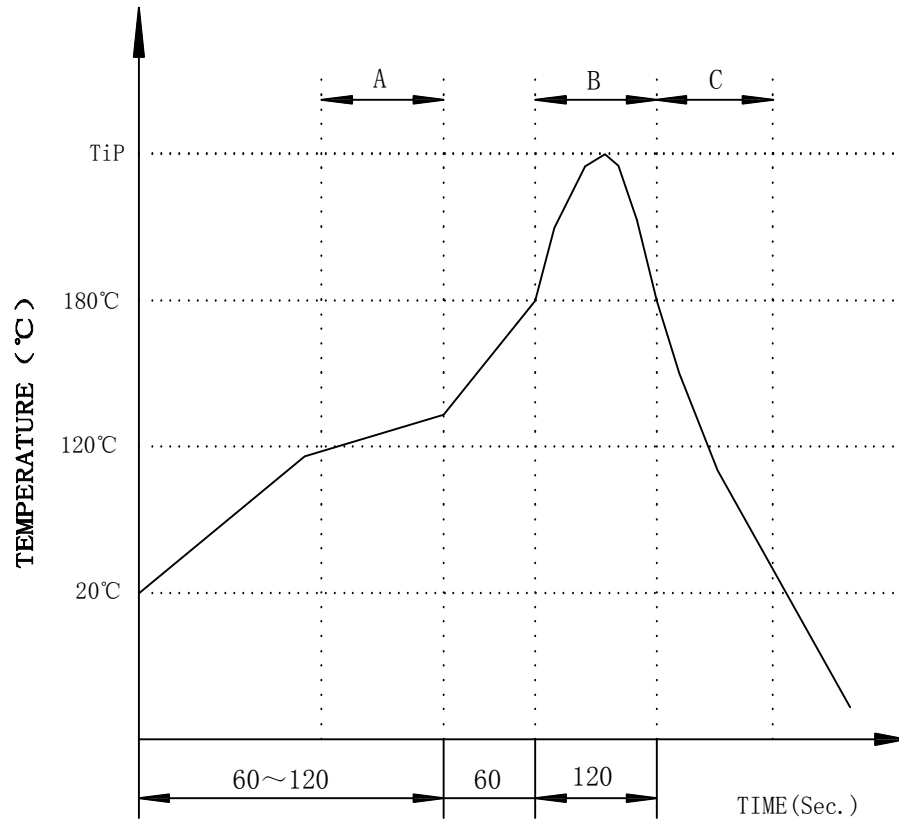
CELION SAS

TITLE: 180° TAB-UP 1X1 100BASE	SIZE A4	UNITS MM[INCH]	GENERAL TOLERANCES UNLESS SPECIFIED		APPROVED BY: JP.Gong
PART NO.: 511B002AC2A8D	SACLE 1:1	REV A0	x±0.35 .x±0.30	x°±3.0° .x°±2.0°	CHECKED BY: TW.Xu
REMARK:	SHEET 2/3		.xx±0.25 .xxx±0.10	.xx°±1.5° .xxx°±1.0°	DESIGND BY: MQ.Qu

REACH & RoHS  
COMPLIANT

# PROFILE OF WAVE SOLDER

REV.	ECN / DESCRIPTION	BY	DATE
A0	NEW	MQ.Qu	2017.12.28



A.Preheating B.Soldering C.Gradual Cooling  
 Tip temperature:260±5°C.  
 Tip temperature time:5Sec Max.  
 Tip melting point of Sn96.5/Ag3/Cu0.5:217°C.

Remarks: after wave soldering, the plastic positioning columns of the product which under the PCB will be slightly melted, but it won't affect its function.

CELION SAS	TITLE: 180° TAB-UP 1X1 100BASE	SIZE A4	UNITS MM[INCH]	GENERAL TOLERANCES UNLESS SPECIFIED		APPROVED BY: JP.Gong
	PART NO.: 511B002AC2A8D	SACLE 1:1	REV A0	x±0.35	x°±3.0°	CHECKED BY: TW.Xu
	REMARK:	SHEET 3/3		.xx±0.25	.xx°±1.5°	DESIGND BY: MQ.Qu
				.xxx±0.10	.xxx°±1.0°	