iPL24GRX-Series (iLite)

Number	Description
iPL24GRX- P12V3C3L iPL24GRX- P24V3C3L	**Low cost constant voltage output with PWM control**

- **Features:**

  - 2.4Ghz ISM wireless receiver for JYS LED System
  - Constant Voltage output with PWM.
  - Supply Voltage: DC 10V – 16V   (P12V3C3L)
   DC 20V – 25.5V   (P24V3C3L)
  - Maximum loading current : 1.2 A/CH
  - RGB / Color-temperature / Dimming mode
 - Over thermal protection
  - Smallest size.

- **Applications:**

  - Mood Lighting
  - Fancy Lamp
  - LED Strip

1. Picture and Dimension:

40.0mm

30.0mm

Pair SW

V+
LED A−
LED B−
LED C−
GND

DC−Jack
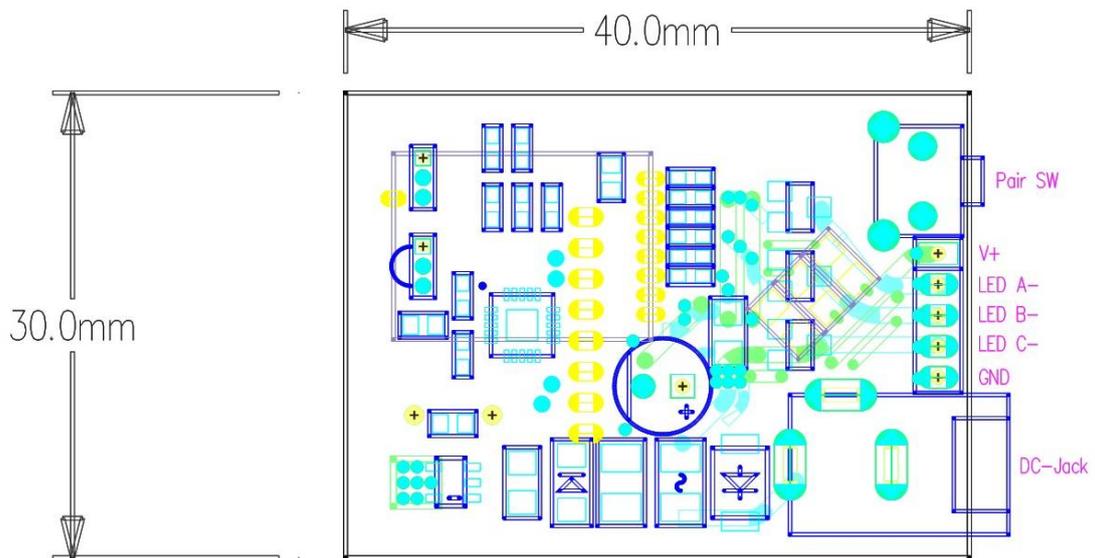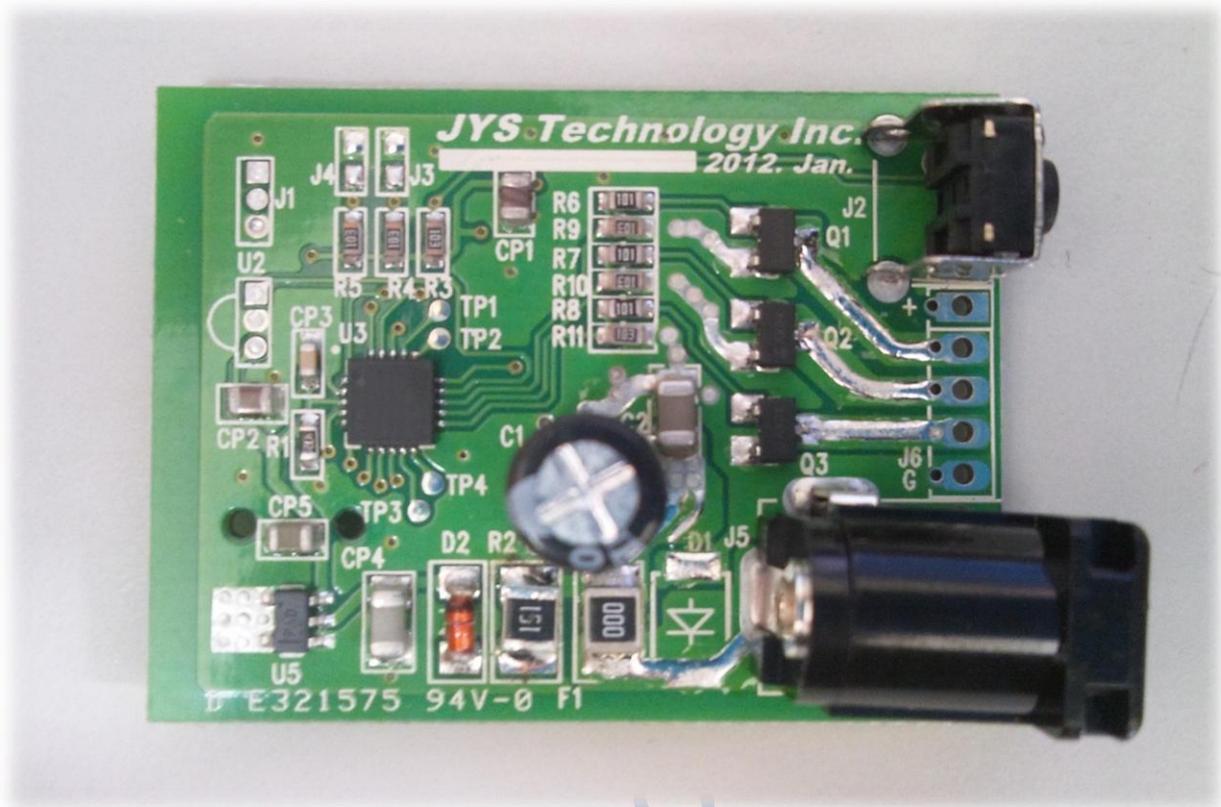
2. Assembling flow：

(1) Choosing LED control mode

There are 3 mode : RGB, Dimming and Cold/Warm white

Using solder 0Ω or open on PBC J3 and J4 to setup different mode

mode	J3	J4
RGB	Open	Open
Dimming	Open	Short
Cold/Warm	Short	Short

Note :1.Initial mode is RGB.

　　　　2. App (jLED) will display different control panel with the setup mode.
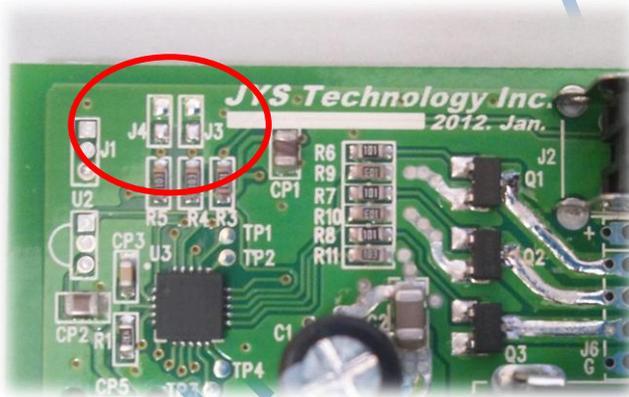
(2) Soldering LED Strip to PCB

Solder on PCB pad : V+,LED A-,LED B-,LED C-

| LED A-	LED B-	LED C-
Red	Green	Blue
(Dimming)	(Dimming)	(Dimming)
Cold White	Warm White	(Dimming)

(3) Mating cable plug of Antenna

　　　　To mate the connectors, insert the cable plug into the SMT receptacle, making sure the cable plug is as vertical as possible and the mating axis of both connectors are aligned. **Do not insert on an extreme angle.**

　　　　Note: The connector belongs precise component. **Avoid mating and unmating.**

3. Reference circuit and power mode

Self Power Mode
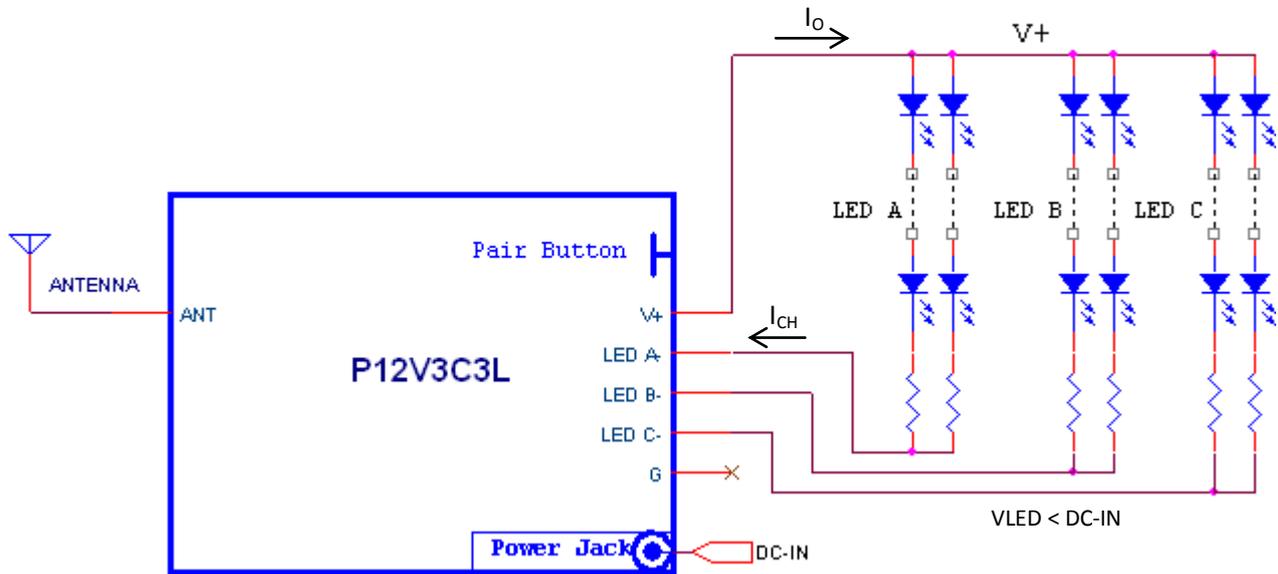
Self Power Mode Electrical Characteristics				
Parameter	Min	Typ	Max	Units
DC-IN	10	12	16	V
I_O			4	A
I_{CH}			1.2	A