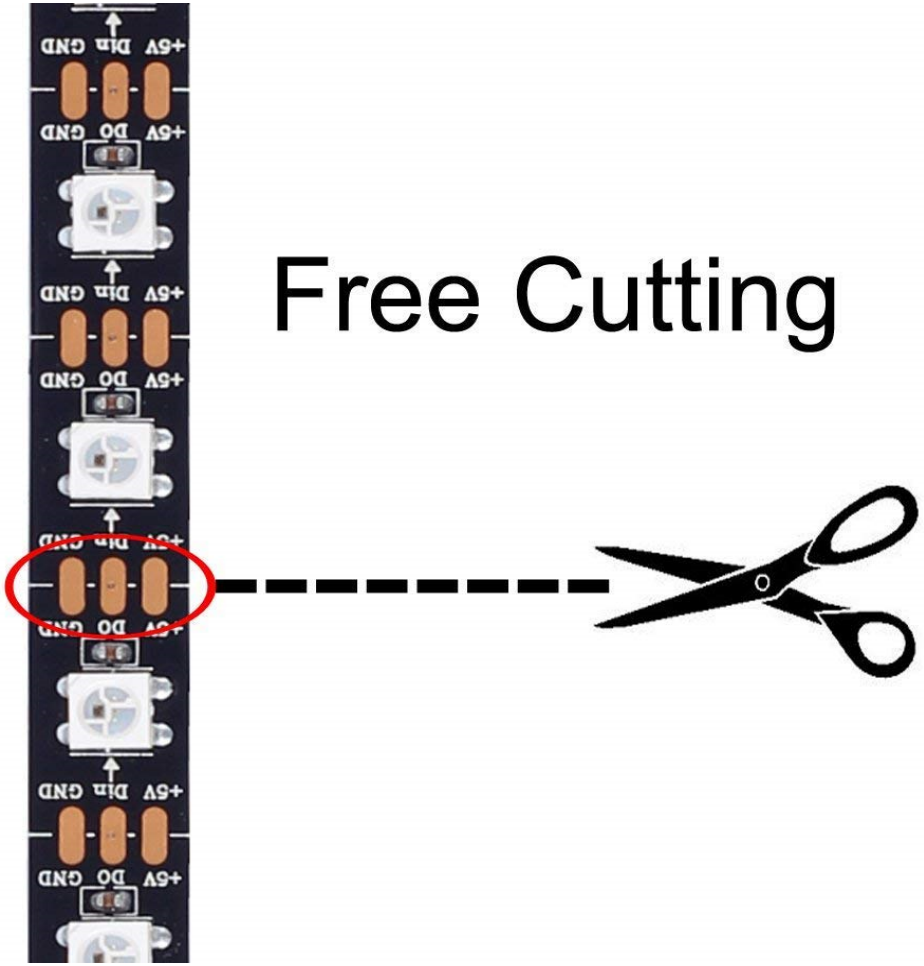
Rose Lighting

Model: RL-STR-sk6812-5050RGB-60-5V

https://www.rose-lighting.com TEL:0755-23763467 Phone:008618675649004 Email:info@rose-lighting.com

Add: No.53 Yuexing Rd, Guanlan Street ,Longhua District,Shenzhen, China 518110

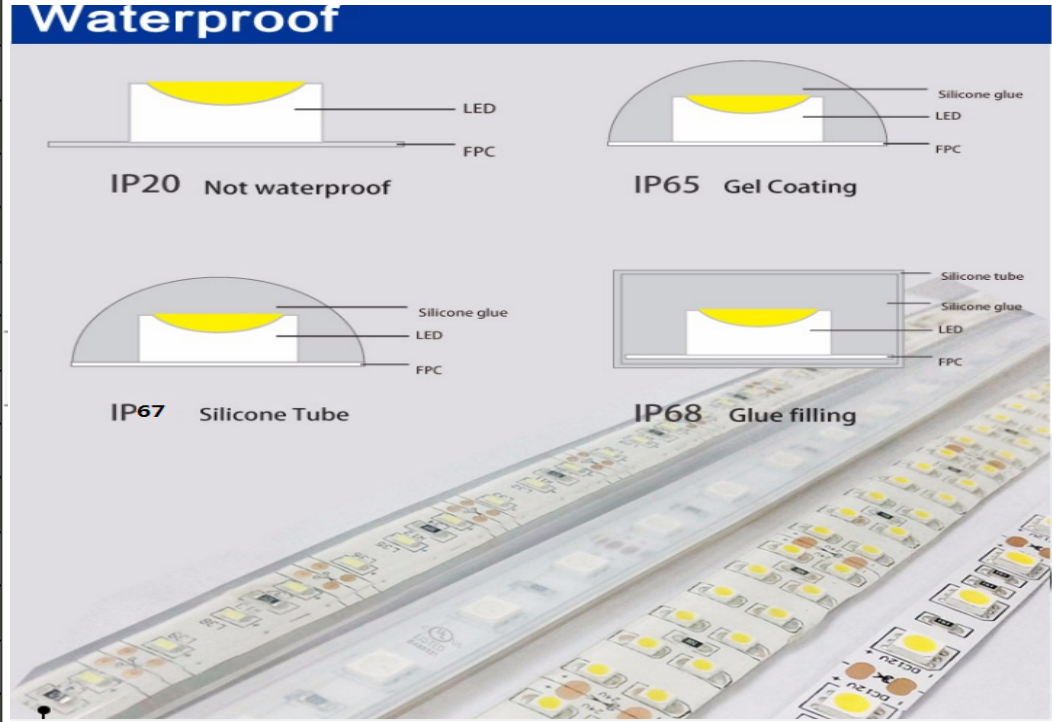


Advantages

1.PWM refresh rate: 1.2kHz, transfer speed 800k bps
2. It comes in 1 meters per reel with 3Pin female/male JST SM connector on both end and separated Power / Ground Wires . Customized length is workable .
3.5V (1leds one IC with 5V)
4. 2unce PCB boardwith double cooper layer(hongqi brand 3535 copper)
5.double sides membrane cover the pcb board. make sure the copper no drop from the pcb board
6. Flexible PCB material . ever 1 LEDcan be cut with 5V,
7. 60 leds per meter . 5V low voltage inputted , don’t over 6V , otherwise you will destroy the entire strip .
8. Controller SystemÿSD controller , DMX controller , Artnet and so on .(SPI protocel)
9. Installing : screw+silicon clip and 3M adhesive on back side for sticky

Technical Parameters

Part NO	RL-STR-sk6812-5050RGBW-60-5V
Lighting Source	Sk6812 5050 RGBW Pixel led
Beam Angel	120 degree
SPI control	Sk6812 SPI control(same as ws2812B)
Operate Voltage Consumption Watt/M	DC5V 19.2 Watt per meter (max)
FPCB quality	Double layer 3535 Copper with 2Ounce
LED quantity /M	60 leds per meter
Luminance (mcd)	1500MCD for one RGB 5050 led
White color	3000K 4000k 6500K optional
Cable	AWG20 with 10cm long
Plug	3pin SM JST Female and male connector
Waterproof Grade	IP20/65/67/68
Packaging	5m/reel
warranty	2 years



Wire define

Red : +5V ; Green: Data white:GND

There is 3 Pin JST SM female/male connector on both end for signal input/output and power inputs at ends

Input: Female Connector output : male Connector

Test Report

8. Electrical parameters（Ta=25℃,VSS=0V）:

Parameter	Symbol	Range	Unit
Power supply voltage	VDD	+3.5～+5.5	V
Logic input voltage	V_{IN}	-0.5～VDD+0.5	V
Working temperature	Topt	-40~+85	℃
Storage temperature	Tstg	-50~+150	℃
ESD pressure(HBM)	V_{ESD}	>4K	V
ESD pressure(DM)	V_{ESD}	200	V

9. Electrical/Optical Characteristics:

Color	SK6812 12mA		
	Dominate Wavelength(nm)	Luminance(mcd)	luminous flux(lm)
Red	620-630	400-700	1.0-2.0
Green	520-535	1000-1500	3.0-4.0
Blue	460-475	200-400	0.5-1.0

Certifications

Intertek

AUTHORIZATION TO MARK

This document supersedes all previous Authorizations to Mark for the noted Report Number.

CERTIFICATE

of Conformity

EC Council Directive 2004/108/EC

Electromagnetic Compatibility

Registration No.: AE 50329836 0001

Report No.: 17055806 001

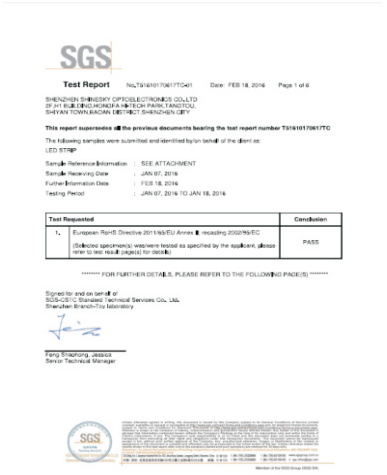
Holder: ShenZhen Shinesky Optoelectronics Co.,LTD 2F,H1 Building, Hongfa Hi-tech Park Tangtou,Shiyan Town,Baoan District, Shenzhen City 518108 P.R. China

Product: LED-Lamp (LED Strip)

Identification: Type Designation: SK-STxQyVz

Tested acc. to: EN 55015:2013 EN 61547:2009

TÜV Rheinland LGA Products GmbH - Tillystraße 2 - 90431 Nürnberg


SGS

Test Report

SHENZHEN SHINESKY OPTOELECTRONICS CO.,LTD

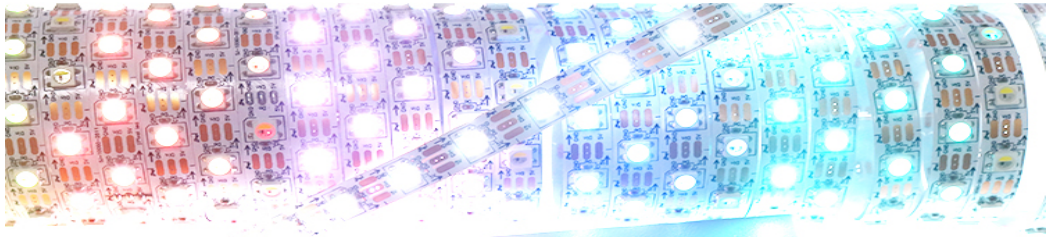
LED STRIP

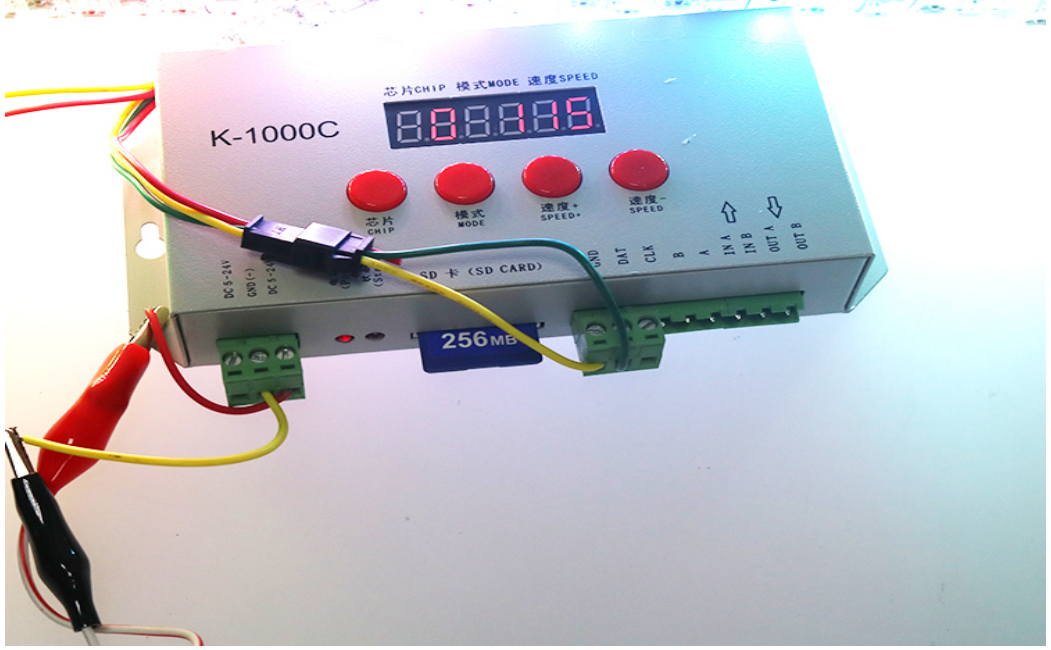
SGS

SHENZHEN SHINESKY OPTOELECTRONICS CO., LTD.

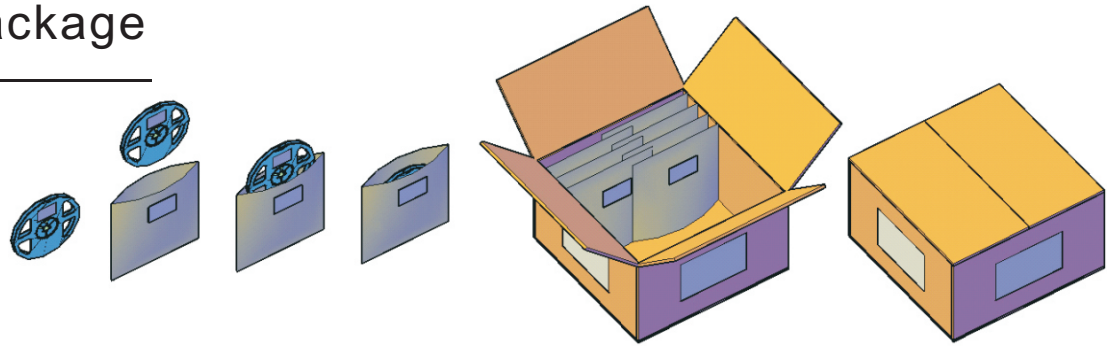
ISO 9001:2015

Wiring Chart





Package

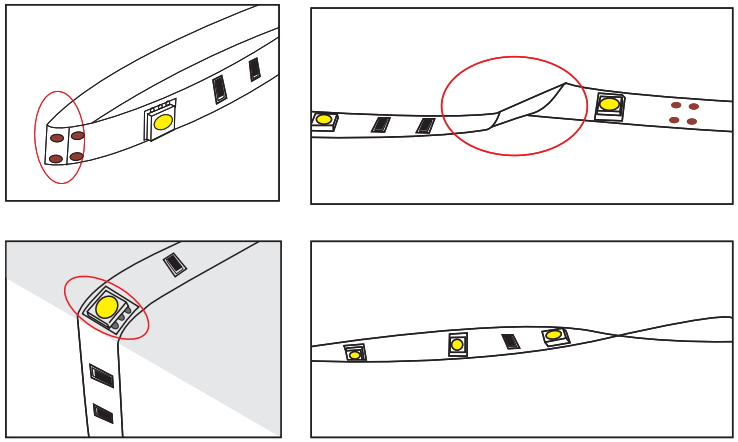


Note:

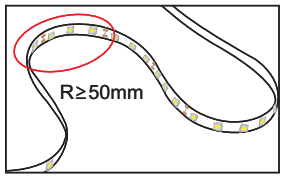
1.One Aluminum Foil Bag for one roll of LED strip, 5M/roll.
2.All the packaging materials are RoHS standard.
3.Heavy stuff are not allow to be loaded above the packaging box.

Cautions:

- When install the led strip , please note the installation technique. The led strip can be bent, but not distorted, as shown below:



Distortion(Wrong)



Bend(Right)

- LED strips are low voltage products, you must use the power supply(transformer). Please don't connect the led strip directly to the AC110 or AC220V, otherwise it will burn out the LED strips.
- Clean up the installation surface, it will ensure the reliability of the adhesive.
- The electrical connection process must be operated by a professional person.