WCN Opto Group Co., Limited

Company Name	
Date	2026-6-10
Part No.	WCN-FT5050RGB1-29FT-2812IC-009W
Product Group Description	
Customer Part No.	
Approval Date	

Customer Confirmation	Approved by	Checked by	Prepared By
	William 2026-6-10	Wei 2026-6-10	Yu 2026-6-10

Country of Origin: China

WCN Opto Group Co., Limited

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REVISION RECORD

MARKER	Matter for revision / Reason for revision	SHEET	DTAE	MAKER	APPOVED SIGN	
A0	P#WCN-FT5050RGB1-29FT-2812IC-009W / New Version issued	WHOLE SHEET	2026-6-10	Wei	YU	William
A1	P#WCN-FT5050RGB1-29FT-2812IC-009W / There is no adhesive on the back	WHOLE SHEET	2026-7-27	Wei	YU	William

Features :

- ◆**Linear separable LED strip on flexible printed circuit board with self-adhesive back**
- ◆**Long life ,easy installation**
- ◆**Voltages available 5VDC**
- ◆**LED: 29pcs 5050 RGB,**
- ◆**PCB material : FPCB,10MM**
- ◆**IC model：WS2812B**
- ◆Control mode：**SPI**
- ◆**There is no adhesive on the back**

Product Picture：

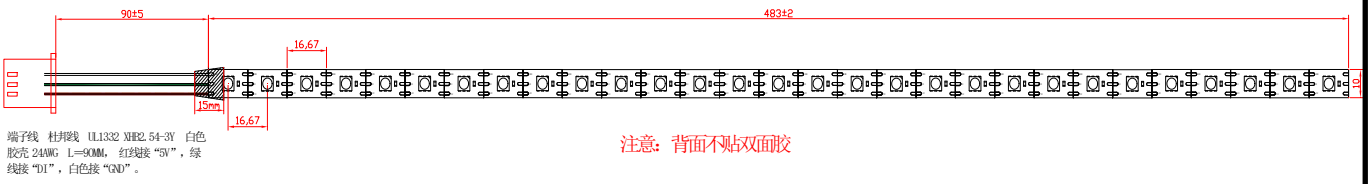




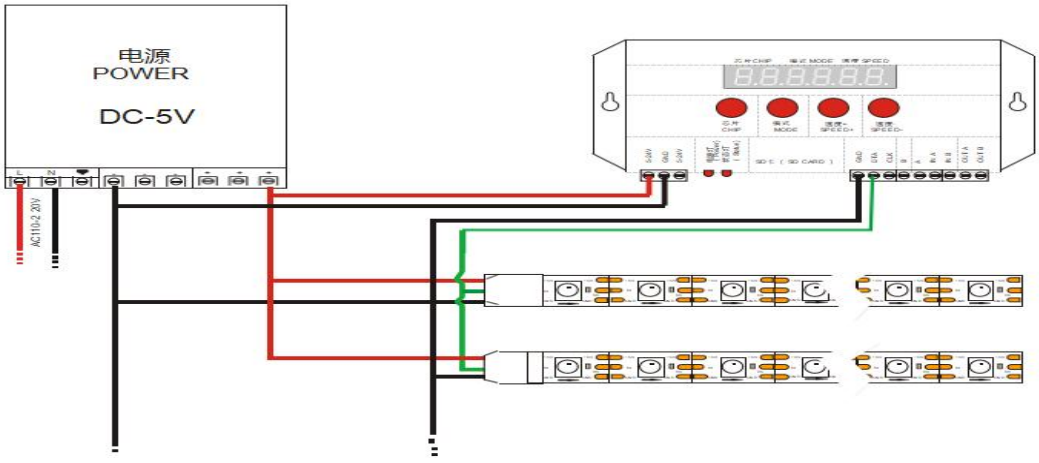
Part No	Color	surface of the glue	Waterproof level	Q`ty of LEDs/PCS	Color Temp/Wavelength Typ(Kelvin/nm)	Working current (A/M)	Voltage (V DC)	Power (W/PCS)
WCN-FT5050RGB1-29FT-2812IC-009W	RGB	No Silicon	IP20	29	620-630NM/515-530NM;460-470NM	2.16	5	5.4

APPEARANCE			PCB Material	FPCB
Description	Lens Color	Waterproof level	Led Emitted Color	RGB
RGB	No Water	IP20	Driver Mode	5V DC
			Lamp length	483mm
	IC	WS2812	Wire length	90mm

■ **Circuit Diagram:**



■ **Connection diagram:**



Notes: 1.UNLESS OTHERWISE STATED, THE TOLERANCE IS ±3MM.

■ ABSOLUTE MAXIMUM RATINGS AT TA=25℃

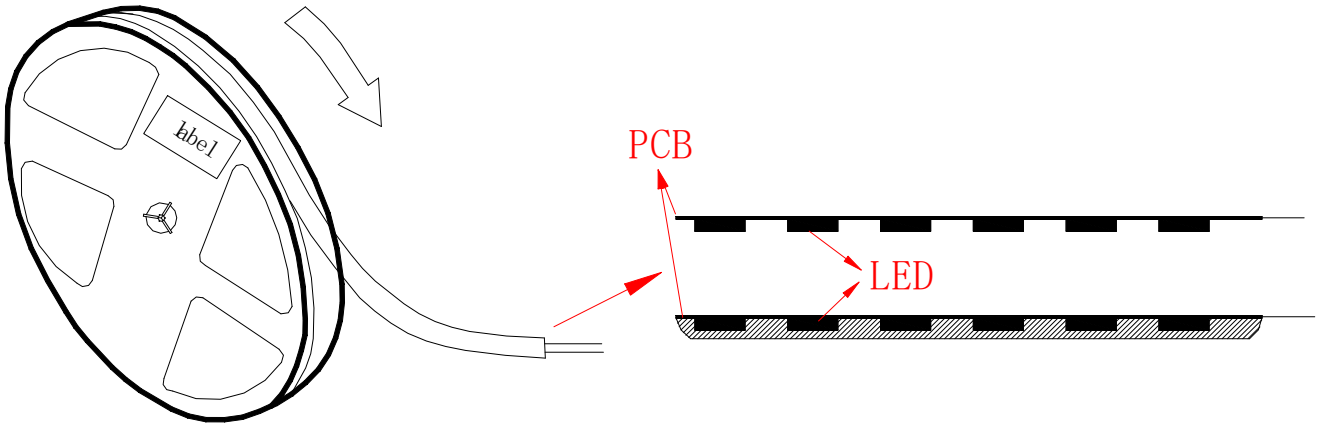
Parameter	Symbol	Rating	Units
Input Voltage	V	5V DC	V
Forward Current	I_F	30	mA/smd
Input Frequency	F	---	Hz
Power Dissipation	P	5.4	W
Operating Temperature	Te	-20～+60	℃
Storage Temperature	Ts	-20～+60	℃
Operating Humidity	/	10 - 65% RH NON-CONDENSING	/

■Typical Performance (Ta=25℃)

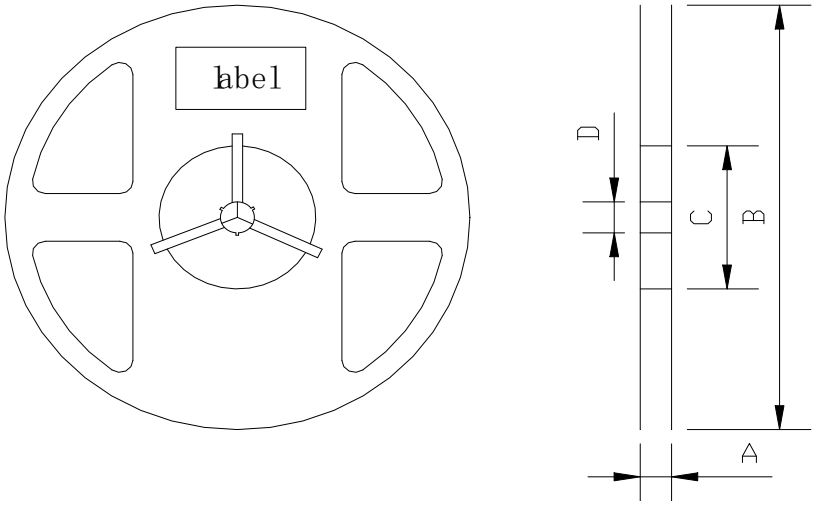
Item	Symbol	Rating			Units
		Min.	Typ.	Max.	
Input Voltage	V	4	5	6	V
Beam Patterm	BP	—	120	---	Deg
Total Length	L	---		---	M/roll
Estimated Life [1]	Life	---	30000	---	hour
Optimized Thermal Management(Body Temperature)	/	-20	---	60	℃

■ Packaging Specifications:

Carrier Tape Dimensions:



Reel Dimension:

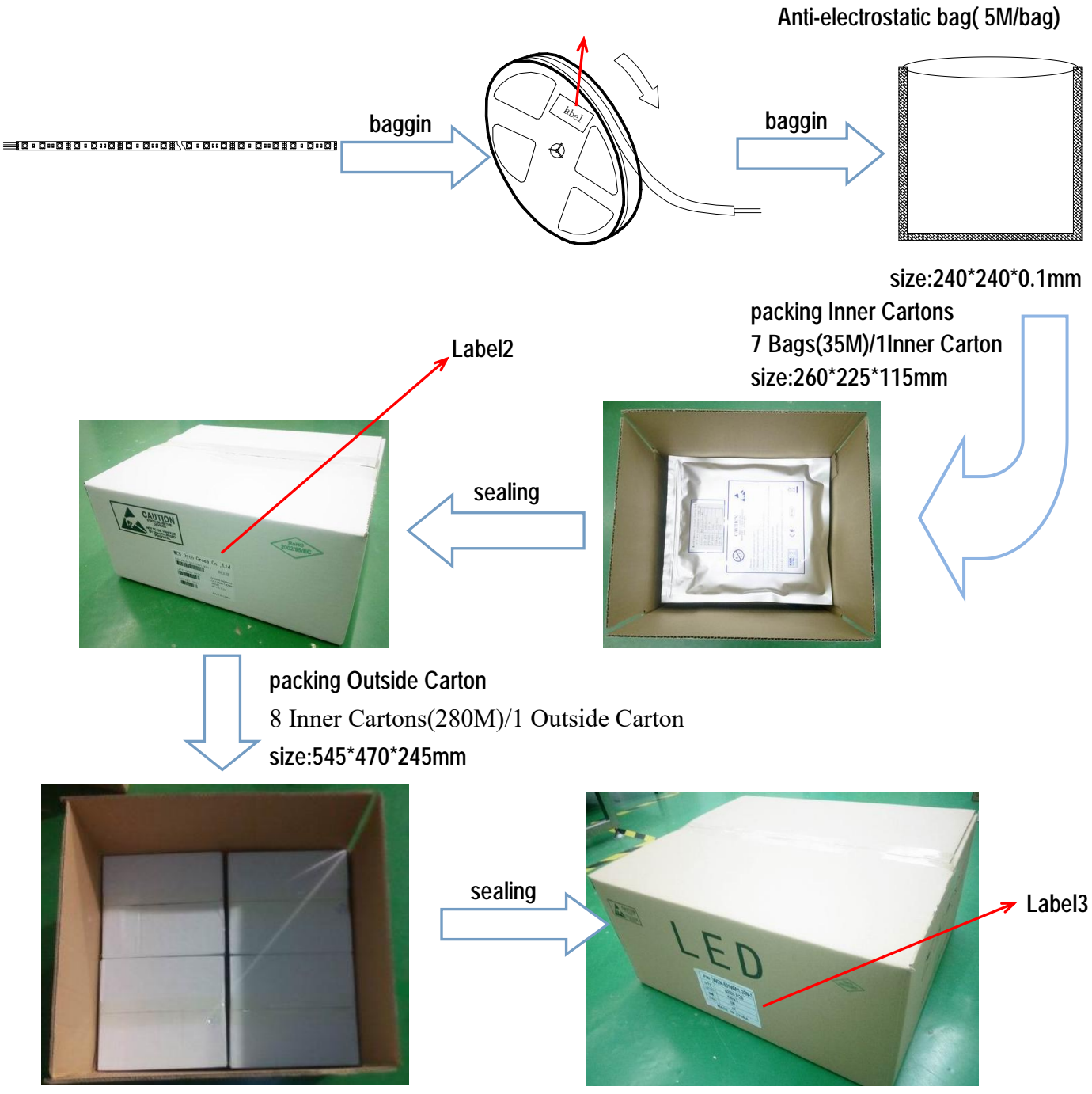


A	16.2±0.1mm
B	178±1mm
C	60±1mm
D	21.0±0.5mm

NOTE:

1.The tolerances unless mentioned ±0.1mm. Unit : mm

Moisture Resistant Packing Process:



WCN Opto Group Co., Limited

Label1:

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P/N:

Color:	
LED QTY:	
VOLTAGE:	
IP RATE:	
Package:	
LOT No.:	

Label2:

WCN Opto Group Co., Ltd

P/N:

Color:	
LED QTY:	
VOLTAGE:	
IP RATE:	
Package:	
LOT No.:	

Label3:

WCN Opto Group Co., Ltd

PART NO:		QTY:	
Datecode:			
NW:		GW:	
C/NO:	of:		

MADE IN CHINA