



LM-WR-5050X (X: W, R, G, B, Y)

- 520*18mm WATERPROOF LIGHT BAR (30LEDS)
- PRINTED CIRCUIT BOARD THICKNESS:1.6MM
- LED VIEW ANGLE:80 DEGREE
- PACKAGE:1PCS/PVC TUBE

■ Absolute Maximum Rating

Item	Symbol	Absolute Maximum Rating	Unit
Forward Current	IF	200	mA
Peak Forward Current*	IFP	250	mA
Reverse Voltage	VR	5	V
Power Dissipation	PD	2.4	W
Electrostatic discharge	ESD	800	V
Operation Temperature	Topr	-25~+80	°C
Storage Temperature	Tstg	-40~+80	°C
Lead Soldering Temperature*	Tsol	Max. 230°C for 5sec Max.	

*IFP Conditions: Pulse Width ≤ 10msec duty ≤ 1/10

*Tsol Conditions: 3mm from the base of the epoxy bulb

■ Typical Optical/ Electrical Characteristics(BLUE)

Item	Symbol	Condition	Min.	Typ.	Max.	Unit
Forward Voltage	VF	IF=200mA		12		V
Reverse Current	IR	Vr=5V	--	10	--	uA
Luminous Flux	ΦV	IF=200mA	--	45	--	lm
Peak Wavelength	λ P	IF=200mA	467	--	475	nm
Recommend Forward Current	IF(rec)	--	--	200	--	mA



■ Typical Optical/ Electrical Characteristics (RED)

Item	Symbol	Condition	Min.	Typ.	Max.	Unit
Forward Voltage	VF	IF=200mA		12		V
Reverse Current	IR	Vr=5V	--	10	--	uA
Luminous Flux	ΦV	IF=200mA	--	55	--	lm
Peak Wavelength	λ P	IF=200mA	620	--	625	nm
Recommend Forward Current	IF(rec)	--	--	200	--	mA

■ Typical Optical/ Electrical Characteristics (WHITE)

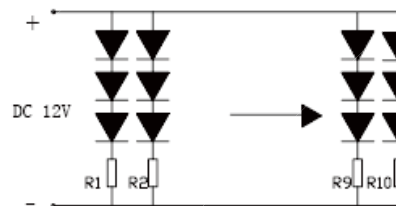
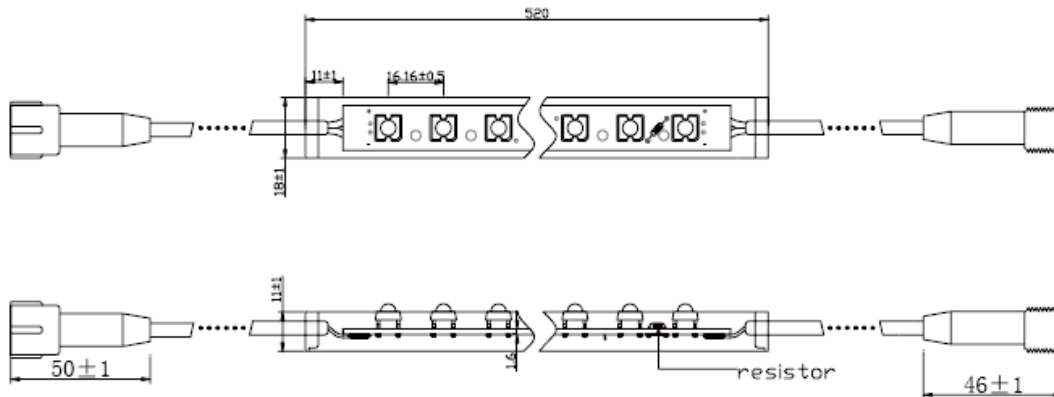
Item	Symbol	Condition	Min.	Typ.	Max.	Unit
Forward Voltage	VF	IF=200mA		12		V
Reverse Current	IR	Vr=5V	--	10	--	uA
Luminous Flux	ΦV	IF=200mA	--	90	--	lm
Peak Wavelength	λ P	IF=200mA	--	--	--	nm
Recommend Forward Current	IF(rec)	--	--	200	--	mA

■ Typical Optical/ Electrical Characteristics

Item	Symbol	Condition	Min.	Typ.	Max.	Unit
Forward Voltage	VF	IF=200mA		12		V
Reverse Current	IR	Vr=5V	--	10	--	uA
Luminous Flux	ΦV	IF=200mA	--	105	--	lm
Peak Wavelength	λ P	IF=200mA	515	--	525	nm
Recommend Forward Current	IF(rec)	--	--	200	--	mA

Notes:

1. Absolute maximum ratings Ta=25°C.
2. Tolerance of measurement of forward voltage ±0.1V.
3. Tolerance of measurement of peak Wavelength ±2.0nm.
4. Tolerance of measurement of luminous intensity ±15%.



Notes:

1. All dimension units are millimeters.
 2. All dimension tolerance is $\pm 0.2\text{mm}$ unless otherwise noted.
 3. An epoxy meniscus may extend about 1.5mm down the leads.
- Burr around bottom of epoxy may be 0.5mm max..