

SMD Light Ribbon „Single Color and RGB“

Benefits

- Can be separable every 3 LEDs along the cut-mark
- Made of printed circuit board with self-adhesive back
- Compact size
- Available in various colors

Applications

- Edge-lighting of transparent or diffused materials
- Path & contour marking
- Illuminated signs

Basic Technical Data

- Standard length: 5 meters/reel
- Ribbon width: single color 8mm, RGB 10mm
- Printed circuit board thickness: single color 0.25mm
RGB color 0.2mm
- Working voltage: 12V DC
- Working current: single color 2A, RGB color 3A
- Entire ribbon LED quantity: single color 300 pcs, RGB 150pcs
- Size of smallest unit 3 LED (L X W): single color 50mm X 8mm
RGB color 100mm X 10mm

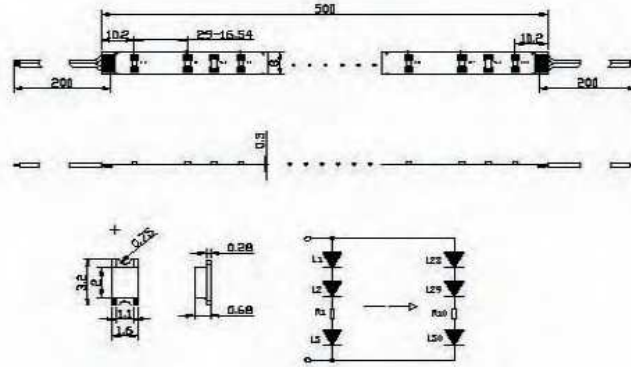


one application

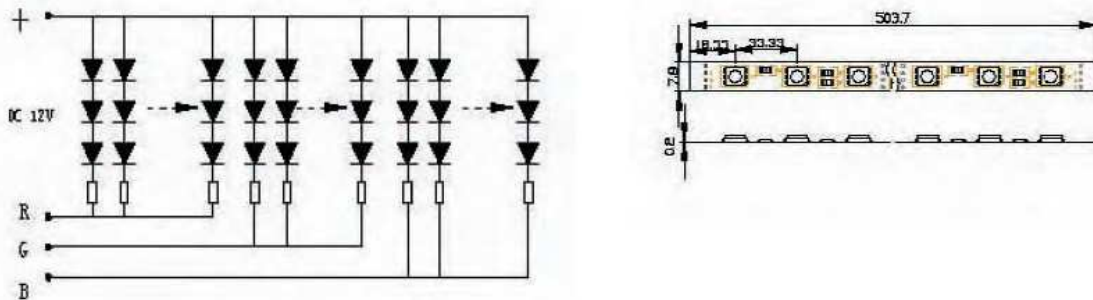


Technical Drawing

(1) Portion of the single color Light Ribbon



(2) Portion of the RGB Light Ribbon



Accessories

RGB controller 1



RGB controller 2



The small remote controller represents the innovative technology. We try to make every piece of product easy to be used and installed with your projects. With the remote controller home application of the ribbon can be realistic. User is recommended to control the color changing patterns within 5 meters.









transformer 1
2.5A



transformer 2
4A





Color	Wavelength(nm)	Lumin.(mcd)	Angle
	630	22000-27000	120
	525	38000-48000	120
	466	14500-18000	120
	---	42000-53000	120
	593	22000-27000	120
	---	2500-3500	120
	---	12000-15000	120
	623	R:7200-9000/G:13000-16000/B:4800-6000	100

Assembly Information

- ➔ Solder connection should only be performed on designated solder pads (marked " +/-"). During soldering, don't exceed the maximum soldering time of 10 seconds and the maximum soldering temperature of 260 Celsius degrees.
- ➔ The smallest unit (72mm or 100mm - 3 LEDs) can be removed by cutting with scissors between the designated solder pads.
- ➔ The mounting of the ribbon is facilitated by means of the double-sided adhesive on the back-surface of the ribbon. Care must be taken to provide a clean and dry mounting surface, free of oils or silicone coatings as well as dirt particles. The mounting substrate must have sufficient structural integrity. Take care to completely remove the adhesive backing. Once the ribbon is appropriately positioned, Press on the ribbon with about 20N/cm² (refer to application techniques of 3M adhesive transfer tapes).
- ➔ The minimum bending radius is 2 cm. The ribbon may be bent over a smaller radius of the circuit board containing no electronic components and such bends should be made once and fixed in position to avoid cyclic fatigue.

Safety Information

- ➔ The SMD light ribbon itself and all its components may not be mechanically stressed.
- ➔ Assembly must not damage or destroy conducting paths on the circuit board.
- ➔ Installation of LED modules (with power supplies) needs to be made with regard to all applicable electrical and safety standards. Only qualified personnel should be allowed to perform installations.
- ➔ Correct electrical polarity needs to be observed. Wrong polarity may destroy the ribbon.
- ➔ Parallel connection is highly recommended as safe electrical operation mode. Serial connection is not recommended. Unbalanced voltage drop can cause hazardous overload and damage the ribbon.
- ➔ Please ensure that the power supply is of adequate power to operate the total load.
- ➔ When mounting on metallic or otherwise conductive surfaces, there needs to be an electrical isolation points between ribbon and the mounting surface.
- ➔ Pay attention to standard ESD precautions when installing the ribbon.
- ➔ Damaged by corrosion will not be honored as a materials defect claim. It is the user's responsibility to provide suitable protection against corrosive agents such as moisture and condensation and other harmful elements.