# Derun Lighting Technology Co., LTD

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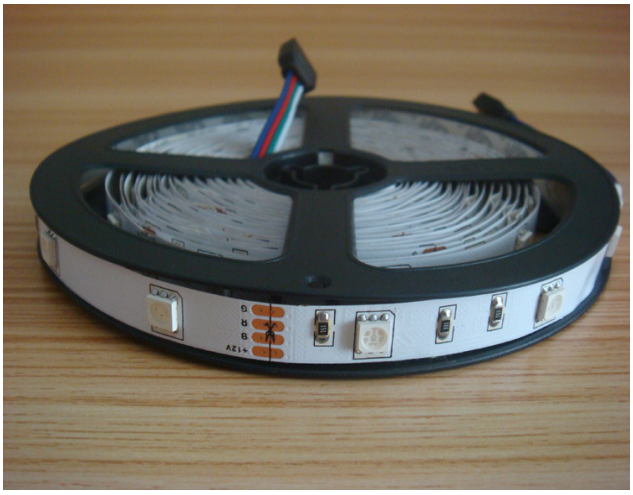
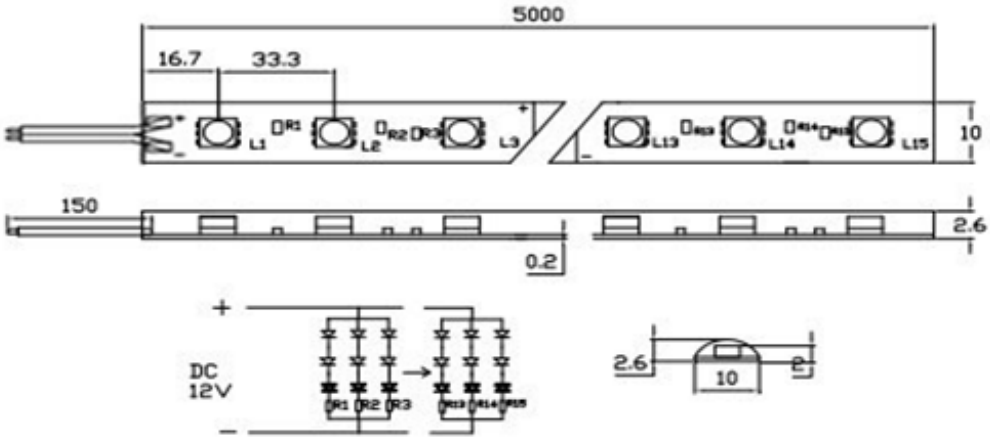
**DR-5050FX30-12X**

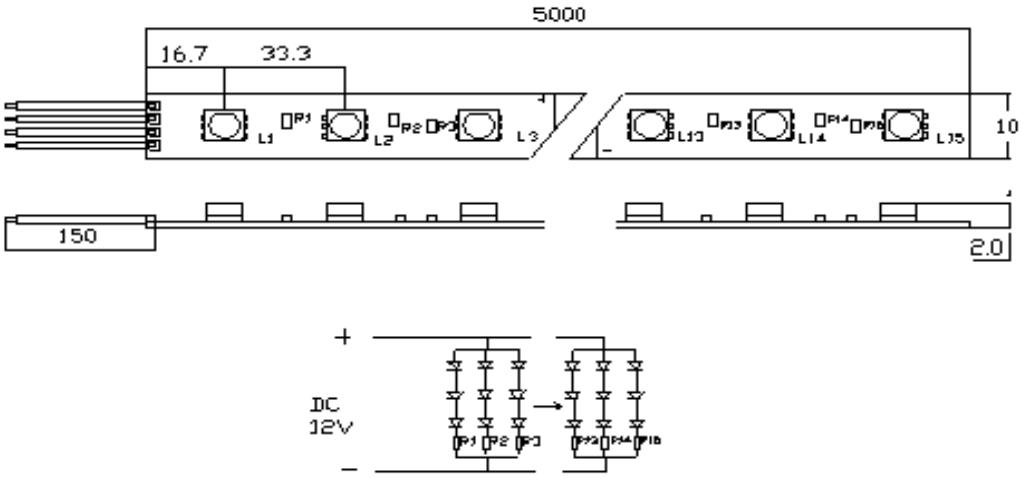


**Dimensions:**

Single Color:




RGB Color:




Notes:

1. All dimensions are in millimeters.
2. Tolerance is ±0.25mm unless otherwise specified.
3. Lead spacing is measured where the leads emerge from the package.
4. Specifications are subject to change without notice.

## Features：

◆wide applicability，easy to install and maintain。
◆very flexible,easily be curved to any shape.
◆extremely luminous，with wide viewing angle.
◆energy saving and environmental conservation,long lifespan.
◆various colors available.

## Application：

◆indoor decoration lighting.
◆large scale backlight.
◆window display lighting.
◆building contour decorative lighting
◆ad.signs

## Cautions:

◆Linear separable LED strip on flexible printedcircuit board with self-adhesive back.
◆Each unit of 3 LEDs can be cut out as a regularsegment without damaging the rest ribbon.
◆The connector is being upgraded.
◆We will keep customers informed.

## Electrical/Optical Characteristics:

| Part No. | Color | Operating Voltage | LED Quantity/m | Length | λd /TCC | LED Spacing | Power Dissipation/m |
|---|---|---|---|---|---|---|---|
| DR-5050FX30-12R | *Red* | DC12V | 30 | 5m | 620-625 nm | 33.3mm | 7.2W |
| DR-5050FX30-12Y | *Yellow* | DC12V | 30 | 5m | 585-595 nm | 33.3mm | 7.2W |
| DR-5050FX30-12G | *Green* | DC12V | 30 | 5m | 510-525 nm | 33.3mm | 7.2W |
| DR-5050FX30-12B | *Blue* | DC12V | 30 | 5m | 460-465 nm | 33.3mm | 7.2W |
| DR-5050FX30-12W | *White* | DC12V | 30 | 5m | 6000-6500K | 33.3mm | 7.2W |
| DR-5050FX30-12WW | *Warm white* | DC12V | 30 | 5m | 2800-3200K | 33.3mm | 7.2W |
| DR-5050FX30-12RGB | *RGB* | DC12V | 30 | 5m | RGB | 33.3mm | 7.2W |

※ PCB Size: 5000mm*10mm
※ LED Quantity: 30leds/m
※ Working Voltage: 12V/24V
※ Power: 7.2W/M
※ Lumen: 18-20LM per led
※ PCB Color: White/Black/Yellow
※ Viewing angle: 120 degree
※ Waterproof: IP20 Non-waterproof
IP65 Silicon Glue Covering Waterproof
IP67 Silicon Tube Waterproof
IP68 Silicon Tube and Silicon Glue Filled Waterproof
※ Tape: 3M adhesive tape on the back for IP20 & IP65 led strip
※ Clips & End Caps: 10pcs Clips & 2pcs End Caps per roll for IP67 & IP68 led strip
※ Color Temperature: Warm white 2800-3200K White 6000-6500K
※ Package: 5M/ROLL with Anti-static Bag
※ Certification: CE, ROHS, UL Listed
※ Warranty: 3 Years

## Note:

Ø Prohibit to use this product in excess of the operating voltage (DC12V) 5%.
Ø Non-waterproof products, and the working environment humidity is less than 60%.
Ø Don’t add reverse voltage at both ends of the product.
Ø Products using indoor environment (not waterproof) is -40 ° C ~ 85 ° C, it would not work outside such environme
Ø No weights extrusion, excessive meander.

Ø Life span is 50000h.
Ø Standard length:5 meters/reel or 8 meters/reel.
Ø Ribbon width: 10mm
Ø Printed circuit board thickness: 0.25mm.

## Assembly information

Ø 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.
Ø The smallest unit (50mm or 100mm-3LEDS) can be removed by cutting with scissors between the designated
Ø 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
Ø The minimum bending radius is 2cm.The ribbon may by bent over a smaller radius of the circuit board contained no Electronic components and such bends should be made once and fixed in position to avoid cyclic fatigue.

## Safety information

Ø The SMD light ribbon itself and all its components may not be mechanically stressed.
Ø Assembly must not damage or destroy conducting paths on the circuit board.
Ø Installation of LED modules (with power supplies) need to be made with regard to all applicable electrical and safety standards. Only qualified personel should be allowed to perform installations.
Ø Correct electrical polarity needs to be observed, Wrong polarity may destroy the ribbon.
Ø 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.
Ø Please ensure that the power supply is of adapters power to operate the total load.
Ø When mounting on metallic or otherwise conductive surfaces, there needs to be an electrical isolation points between ribbon and the mounting surface.
Ø Pay attention to standard ESD precautions when installing the ribbon.
Ø Damaged by corrosion will not be honored as a materials defect claim, it is the user's responsibility to provide suitable protecton against corrosive agents such as moisture and condensation and other harmful elements.

## Package & Shipping: