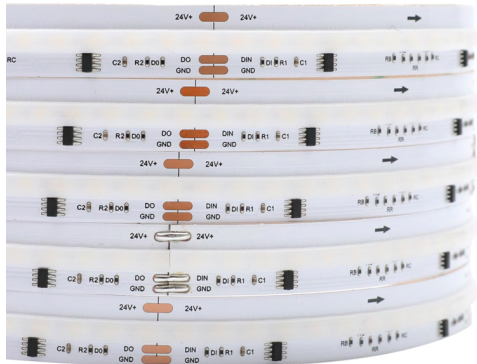


24 Volt Smart RGB CCT COB LED Strip Addressable Flexible Light

Model: FCOB-24V-ARGBCCT-W12



- WS2811 RGB CCT IC
- 840 LEDs/m, 4200 LEDs/16.4ft
- JST Connector
- Every 83mm/3.3inch can be cut
- IP20/65/67/68 optional
- RGB+2700k-6500k



Description

This addressable RGB CCT COB LED strip is controlled by WS2811 chip, able to display detailed and rich color changing lighting effects. In addition, this smart COB LED strip addressable can emit pure white light with adjustable color temperatures from 2700k warm white to 6500k daylight white.

The RGBWW COB LED strip addressable has a high density of 840 LEDs per meter, with a total of 4200 LEDs in one reel (5m/16.4ft). Every meter contains 168 R,G,B,CW,WW LEDs, together emitting high bright light. 12 ICs are mounted on the COB LED PCB across each meter, and one IC controls 14 groups of LEDs.

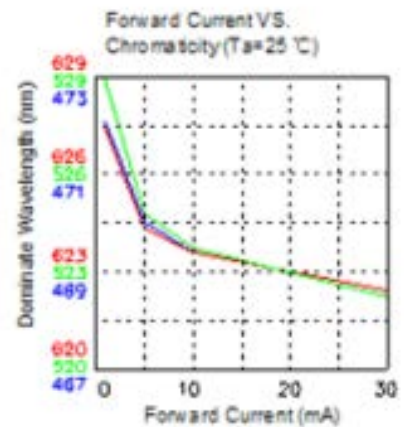
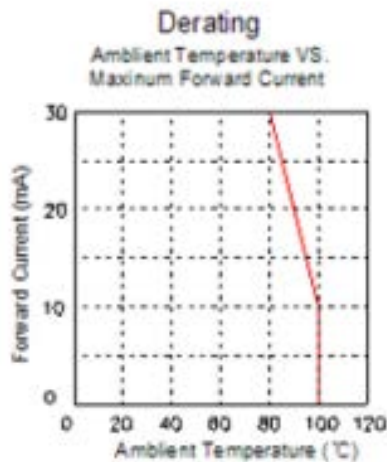
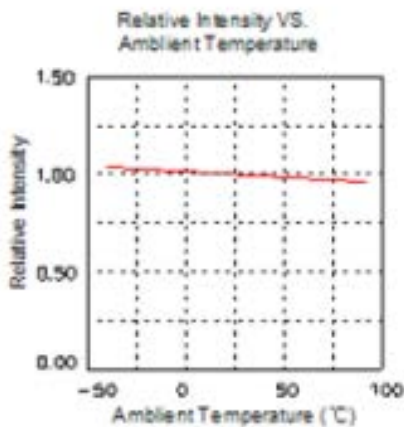
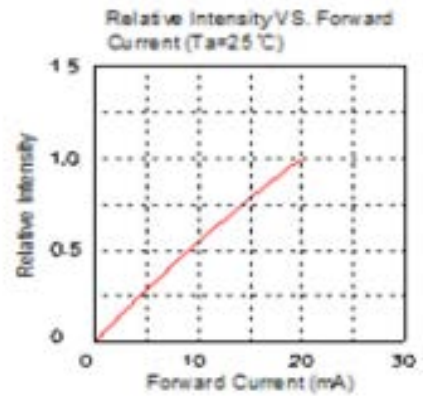
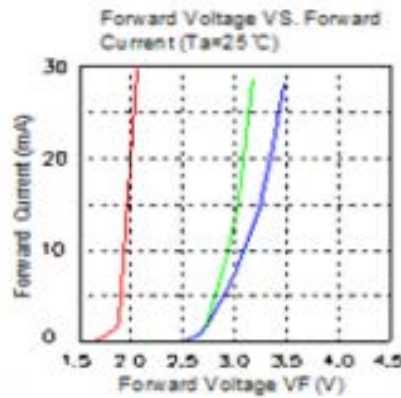
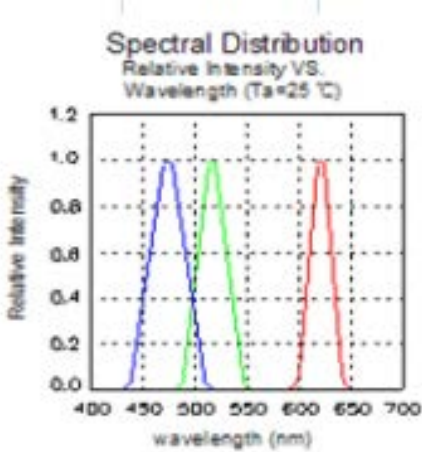
Product Specification

Product Type:	24 Volt Addressable RGB CCT LED COB Light Strip
IC Chip:	WS2811 IC
Input Voltage:	DC24V
Power:	29W/m, 145W/16.4ft
Working Temperature:	-20 °C ~ +45 °C
Storage Temperature:	-20 °C ~ +60 °C
LED Color:	Addressable RGB+CCT (2700k-6500k)
PCB Width:	12mm/0.47" IP20 15mm/IP67/68
LED Quantity:	840LEDs/m
Waterproof Rating:	IP20 / IP65/ IP67 / IP68
Cuttable:	83mm/3.3", 12 ICs/m, 60 ICs/Roll
Lumen:	2lm/LED
Lifespan:	50,000 hours +
Beam Angle:	180°
Strip Length:	5m/16.4Ft

*CCT may be +/-100K but always ordered from same bin and will present no noticeable differences perceived by the human eye.

Electrical-Optical Characteristics

CCT (K)	Wavelength (nm)	Power (W)	Lumen (Lm)	Voltage (V)	Chips (PCS)
R	620-630	5.8	95-105	24V	168
G	520-530	5.8	375-385		168
B	455-465	5.8	60-70		168
C	6500K	5.8	285-295		168
W	2700K	5.8	265-275		168



*CCT may be +/-100K but always ordered from same bin and will present no noticeable differences perceived by the human eye.

● Limit Parameters:

Parameters	Notation	Rating	Unit
Working Temperature	Topr	-40°C TO +45°C	°C
Storage Temperature	Tstf	-40°C TO +85°C	°C

● Standard for Reliability Testing:

Test Item	Test Conditions	Duration/Cycle	Condition	Utilization Equipment
Thermal Shock	-40°C 30min ↑ ↓ 5sec 100°C 30min	200cycles	No cracks in the adhesive; No dead LEDs	Thermal Shock Chamber
Humidity Heat Storage	Ta=85°C、 RH=85% rated voltage	1000hr	LightDecay≤10% No cracks in the adhesive; No dead LEDs	High Temperature and Humidity Chamber
Life Test	Ta=25°C rated voltage	1000hr	LightDecay≤3% No cracks in the adhesive; No dead LEDs	Room Temperature Aging Chamber
High Humidity Heat Life Test	60°C RH=90% rated voltage	1000hr	LightDecay≤10% No cracks in the adhesive; No dead LEDs	High Temperature and Humidity Aging Chamber
Twist Test	0.5M fixed at both ends twisted 720° /cycle	500	No Decoupling; No dead LEDs	Torsion Testing Machine

Product Use Precautions:

1. Please take care to protect the LED strip to prevent the light-emitting area from coming into contact with sharp or hard objects.
2. After opening the package, please solder within 24 hours to prevent oxidation of the soldering points from affecting the soldering effect. If the product is not used up after opening, please vacuum seal it.
3. Avoid direct contact between the light-emitting area of the strip and high-temperature objects. The surface of the light-emitting area should not come into contact with temperatures above 210°C for an instant.
4. When soldering, the temperature of the soldering iron must be below 300°C. Please control the soldering time for each pad within 3 seconds.
5. Twisting the product within a short distance is strictly prohibited. The maximum twist angle for a single strip (0.5 meters) is 720° (Figure 1).
6. Bend at any position with a radius greater than 1CM (Figure 2).

