

16 MILLION COLOR LED LIGHTING SYSTEM

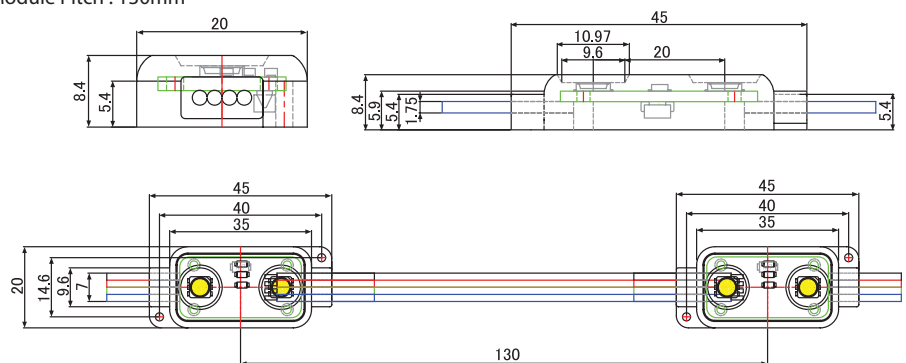


The STAR RGB C02 is a full color RGB LED module which can produce 16 million colors with Samsung LED lamp. Single SMD type lamp has 3 light emitting diode chips, one for red, one for green, and one for blue. This 3 chips in 1 lamps provides smooth mixture of colors, which cannot be achieved with old-fashioned superflux LED lamp. With high speed controlling ability, plenty of applications are available such as façade lighting, interior lighting, and also channel lighting. One truly innovative aspect of the STAR RGB C02 is its 96% transparent body, which allows not to dim lighting output from the LED lamp. While maintaining its extreme energy efficiency, it also provides reliable assurance with Samsung LED technology that lighting output remains 70% level out of initial output after using 42,500 hours. Please, let us welcome you to our hassle free lighting system.

- 16 Million full color LED lighting system with sophisticated 3 chips in 1 SMD lamp
- Guaranteed life time up to 42,500 hours with 70% lighting output
*24 hour constant load may result less operating hours with lower lighting output. Estimated lifetime is based on normal usage of 10 hours per day.
- Transparent PVC body for tough environment
- Reverse voltage protection to minimize hassles during installation
- Extremely small and light solution for low-profile channel letters, indoor
- Quality and reliability assured

PHYSICAL

Length : 45mm
 Width : 20mm
 Thickness : 8.4mm
 Weight : 10g
 Lamp Pitch : 20 mm (2 LED Lamps)
 Module Pitch : 130mm



OPTICAL CHARACTERISTICS

Color	Luminous Intensity(cd)			Dominant Wave Length & Color Temperature			Viewing Angle
	Min	Typical	Max	Min	Typical	Max	2θ _{1/2}
Red	3		5	617nm		632nm	120
Green	7		10	523nm		537nm	120
Blue	2		3	450nm		465nm	120

*CRI (Color Rendering Index) for white product types is 70 / *Luminous Flux measuring equipment is CAS140B
 *Viewing angle is the off axis angle from lamp centerline where the luminous intensity is half of the peak value / *CCT 5% tester tolerance
 *Dominant wavelength is derived from the CIE 1931 Chromaticity diagram and represents the perceived color

ELECTRICAL CHARACTERISTICS

Current dissipation : 60 mA
 Power consumption : 0.72 W
 Operating power : DC 12V
 Quantity for maximum connection in serial : 50 modules
 Color controller supported: Voltage controlled color change system
 Constant current drive
 Reverse voltage protection

THERMAL

Cooling : Ambient air
 Maximum operating temperature : 50°C
 Minimum operating temperature : -10°C
 Maximum storage temperature : 60°C
 Minimum storage temperature : -20 C

SAFETY FEATURES

Reverse voltage protection : Device will prevent incoming power source on improper input connection

CONSTRUCTION

LED Lamp : 3-in-1 RGB, 5252
 Body : PVC(Polyvinyl Chloride) transparent resin, 96% transparency
 PCB : FR-4 fiber glass epoxy resin, quad layered
 Lead wire : 20 AWG

ACCESSORY

RGB Controller: Transmit pre-programmed scene to modules

APPLICATIONS

Channel letters - closed cover
 Reverse halo lighting
 Border lighting
 Point-Of-Purchasing signage
 Art & sculpture and cove lightin
 Façade lighting

APPROVAL

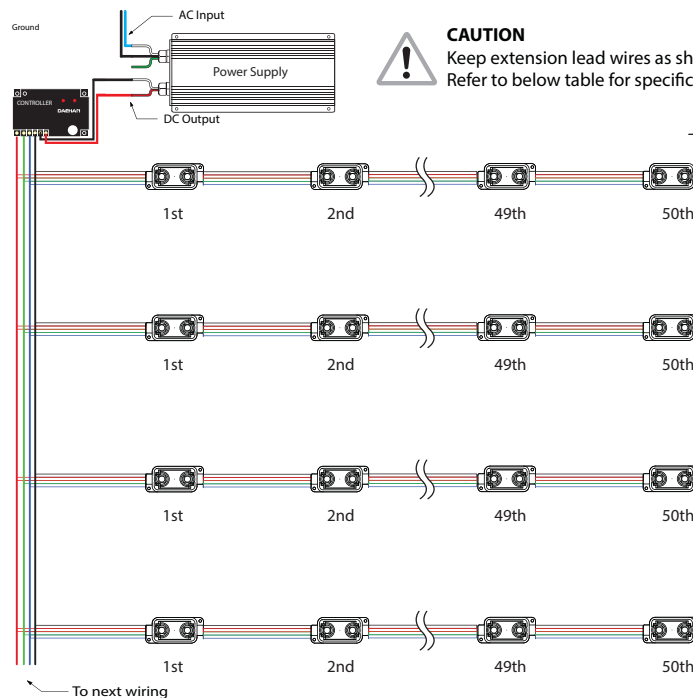
EN 55015/A2 : 2009
 EN 61547/2009
 EN 62031/2008
 EN 62471/2006
 UL879 -U.S Standard for Electric Sign Components
 C22.2 No. 207-M89-Canadian Standard for Portable and Stationary Electric Signs and Displays



FEATURES



WIRING GUIDE



Specifications subject to change without notice