16 MILLION COLOR LED LIGHTING SYSTEM

The SUPER NOVA RGB4 RGB LED Module which can produce 16 million brilliant colors, using Samsung LED lamps. Each SMD lamp has 3 light emitting diode chips inside, one for red, one for green, and one for blue. The 3 in 1 lamp technology provides an extremely smooth mixture of colors and high speed controlling ability, which cannot be achieved by other types of LED lamps. Many applications are available for this RGB Module such as façade lighting, interior lighting, trade show exhibits, theater / movie set designs and also channel letters. One truly innovative aspect of the SUPER NOVA RGB4 is its 96% transparent PVC body, which allows no dim of lighting output from the LED lamp. and provides a protective barier around the LED modules. While maintaining its extreme energy efficiency, it also provides reliable assurance with Samsung LED technology, allowing very bright light output for years of use. This is a truely amazing RGB LED Module!

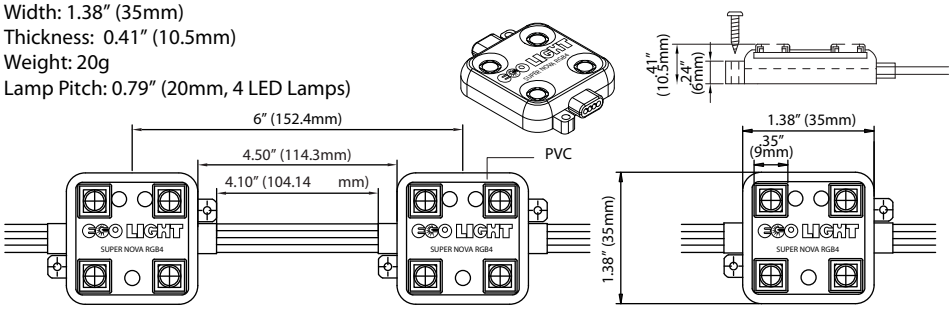
- 16 Million full color LED lighting system with sophisticated 3 chips in 1 SMD lamp
- With life time up to 42,500 hours with 70% lighting output

*24 hour constant load may result in less operating hours with lower lighting output.
Estimated lifetime is based on normal usage of 10 hours per day.

- IP65 weatherproof / waterproof system (Non-submersible)
- Transparent PVC body for tough environment protection
- Reverse voltage protection to minimize hassles during installation
- Extremely small and light solution for low-profile channel letters, cove lighting & backlighting applications
- 70% more energy efficiency compared to conventional sign lighting sources
- 3M™ VHB™ Grey Mounting tape for the best long term mounting solution

PHYSICAL

Length: 1.38″ (35mm)
Width: 1.38″ (35mm)
Thickness: 0.41″ (10.5mm)
Weight: 20g
Lamp Pitch: 0.79″ (20mm, 4 LED Lamps)



OPTICAL CHARACTERISTICS

	Luminous Flux (lm)		Dominant Wave Length & Color Temperature		Viewing Angle
Available Color	Typical	Max	Min	Typical	$2\Theta_{1/2}$
Red	12lm	13lm	623nm	625nm	120
Green	21lm	22lm	525nm	527nm	120
Blue	4lm	5lm	455nm	460nm	120

* 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

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ECO LIGHT LED Lighting Solutions

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ELECTRICAL CHARACTERISTICS

Current dissipation: 120 mA
Power Consumption: 1.4 W
Operating power: 12 VDC Constant Voltage
Quantity for maximum connection in serial: 30 modules
Color controller supported: Voltage controlled color change system
Constant current drive
Reverse voltage protection

THERMAL

Cooling: Ambient air
Maximum operating temperature: 140˚F (60˚C)
Minimum operating temperature: -13˚F (-25˚C)
Maximum storage temperature: 140˚F (60˚C)
Minimum storage temperature: -22˚F (-30˚C)

SAFETY FEATURES

ESD Protection: Industry standard electro-static discharge protection
IP65 : weatherproof / waterproof, prevents water & dust penetration, (Non-submersible)
Reverse voltage protection : Device will prevent incoming power source on improper input connection

CONSTRUCTION

LED Lamp : 3-in-1 RGB LED lamp, chip & packaging by Samsung
Body: PVC (Polyvinyl Chloride) transparent resin, 96% transparency
PCB: FR-4 fiber glass epoxy resin, quad layered
Lead wire: Copper wire, semi-rigid PVC, UL VW-1, CSA 80 celsius 300V

APPLICATIONS

Channel letters - open & closed cover
Reverse halo lighting
Border lighting
Point-Of-Purchasing signage
Art & Sculpture and cove lighting
Cove lighting
Displays and Trade Show Exhibits

APPROVAL

EN 55015:2000+A1:2001+A2:2002 Class B
EN 61547:1995+A1:2000

CE

FEATURES

IP65 FULL COLOR RGB SYSTEM WEATHER PROOF CONSTANT CURRENT DRIVING SYSTEM Technology by SAMSUNG REVERSE VOLTAGE PROTECTION DC12V

Specifications subject to change without notice

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