

LOW-PROFILE & VERSATILE LED MODULE FOR SIGNS

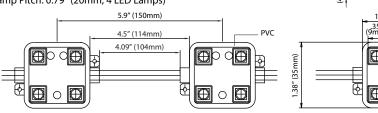
The SUPER NOVA 4 is a premiere low-profile channel letter module. Its compact size makes it suitable for many types of lighting applications and is the best solution for replacement of conventional lighting sources like neon tubes and fluorescent bulbs. The transparent PVC body allows this module to protect itself against indirect weather contact from rain, snow, sun light, and dust, which makes it suitable for both indoor and outdoor used. It also features reverse voltage protec-tion to prevent damage during installation and a constant current system that stabilizes the current thoroughly, for an extended lifetime.

- · 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)
- · Uniform color temperature by strictly controlled system of bin rank
- · 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: 1.42" (36mm) Width: 1.42" (36mm) Thickness: 0.35" (9mm) 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⊖½
White	48lm	68lm	9,100K	10,000K	120
Daylight White	48lm	68lm	5,000K	6,500K	120
Warm White	43lm	62lm	2,700K	3,000K	120
Red	19lm	25lm	623nm	625nm	120
Green	38lm	50lm	525nm	527nm	120
Blue	8lm	9lm	455nm	460nm	120

Luminous Flux measuring equipment is CAS140B

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^{*} Viewing angle is the off axis angle from lamp center line where the luminous intensity is half of the peak value / *CCT 5% test tolerance * Dominant wavelength is derived from the CIE 1931 Chromaticity diagram and represents the perceived color * Color temperature for white is strictly controlled by bin rank system and it consists of three ranks which should not be used simultaneously.

ELECTRICAL CHARACTERISTICS

Current dissipation: 95 mA Power Consumption: 1.15W

Operating power: 12VDC Constant Voltage

Quantity for maximum connection in serial: 50 modules

Electronic dimming control supported

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 White LED Lamp: 3 chips white phosphor LED lamp, chip & packaging by Samsung

Color LED Lamp: 2 chips 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

Replacement for conventional lighting systems

APPROVAL EN 55015:2000+A1:2001+A2:2002 Class B

EN 61547:1995+A1:2000



FEATURES

IP63 WEATHER PROOF









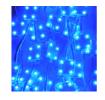
Specifications subject to change without notice

3 White Temperatures and 3 Colors to chose from













Warm White

Daylight White

Bright White

Blue

Green

Red

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