



RGB LED Module, 0.96W SMD5050 3-Dot, IP65, DC12V, Beam Angle Over 160°

- SMD5050 RGB LED chip technology for customizable color output
- Three-dot module configuration for compact, distributed illumination
- IP65 rated for indoor and outdoor dust and moisture resistance
- Beam angle exceeds 160 degrees for broad, even light spread
- Operates at DC12V, drawing 0.96W per module
- Rated for 50,000 hours of LED lifetime with a 1-year warranty

OVERVIEW

The 7-50×3RGB-UL is a compact SMD5050 RGB LED module designed for flexible accent, signage, and decorative lighting applications in both indoor and outdoor environments. Its three-dot configuration and wide beam angle of over 160 degrees deliver broad, even color distribution across a variety of mounting surfaces.

The module operates at DC12V, draws 0.96W of power, and carries an IP65 protection rating, making it resistant to dust ingress and low-pressure water exposure. RGB capability allows for customizable color output suited to channel letter illumination, display backlighting, and architectural accent work. The module is rated for 50,000 hours of LED life and is backed by a 1-year warranty.

SPECIFICATIONS

OPTICAL

Beam Angle	160°
LED Chip Type	SMD5050
LEDs per Segment	3
LED Lifetime	50,000 h

MECHANICAL

Product Dimensions	14 × 7 × 1 in
Weight	1.3 lb

ORDERING

Warranty	1 y
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ELECTRICAL

Operating Voltage	12 V
Wattage	0.96 W

ENVIRONMENTAL

IP Rating	IP65
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APPLICATIONS

- Channel letter illumination
- Sign backlighting
- Architectural accent lighting
- Outdoor signage displays
- Decorative color lighting

PROVENANCE — REVIEW COPY ONLY

slug	value	source	confidence
beam_angle_deg	160°	pdf	medium

slug	value	source	confidence
led_chip_type	SMD5050	pdf	high
leds_per_segment	3	pdf	high
led_lifetime_h	50,000 h	db	high
operating_voltage	12 V	pdf	high
wattage	0.96 W	pdf	high
product_dimensions	14 × 7 × 1 in	db	high
weight	1.3 lb	db	high
ip_rating	IP65	pdf	high
warranty_years	1 y	db	high

Specifications subject to change without notice.

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