



ATENDI

| protech led



LED STRIP SPECIFICATION

AT-RGB-PIXEL-5V-1





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DESCRIPTION

SK6812 RGB magic LED strip lights let you create millions of colors by just mixing red, green, and blue colors. With the ability to control each individual pixel and each individual channel, the color mix and color effects possibilities are endless. LED Chip is built-in IC SK6812, supporting numerous Color-change effects every single LED. Fully compatible with WS2812B. Flexible PCB 5V low voltage input.

DIMENSIONS & WATERPROOF

| | |
|-----------|---|
| Dimension | <p>5.165 10.33 5000 3 pin wire L=150mm, 20AWG Unit:mm</p> |
| IP Grade | <p>IP20 IP52 IP65H IP65 IP67 IP67E/IP68</p> |

PRODUCT SPECIFICATION

| | | | |
|--------------|---------------|-----------------------|-------------------------|
| Dimension | 5000x10x2.2mm | Voltage (V) | DC5V |
| Chip Type | 5050SMD | Current (A/m) | 5.76A |
| Chip Density | 96LEDs/m | Power (W/m) | 28.8W(3 colors 100% on) |
| Step LEDs | 1LEDs | Beam Angle | 120° |
| Step Length | 10.33mm | Operation Temperature | -20°C~50°C |

PRODUCT PHOTOMETRICS - RED, GREEN AND BLUE DIODES (DATA BASE ON IP20)

| Color | Peak Wavelength (nm) | Dominant Wavelength (nm) | Lumen (LM/M) | Power (W/M) | Efficacy (LM/W) |
|-------|----------------------|--------------------------|--------------|-------------|-----------------|
| RED | 632 | 622 | 213.30 | 9.27 | 23.01 |
| GREEN | 517 | 523 | 683.93 | 10.08 | 67.85 |
| BLUE | 462 | 466 | 120.30 | 9.45 | 12.73 |

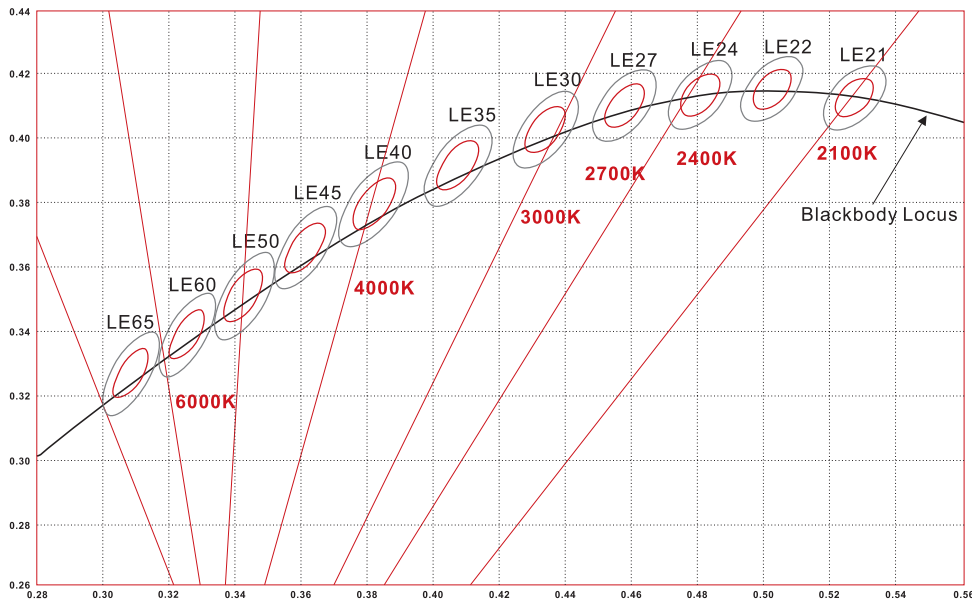


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PRODUCT PHOTOMETRICS - ALL RED, GREEN AND BLUE COLOR AT 100% ON (DATA BASE ON IP20)

| CCT (K) | Lumen (lm/m) | Power (w/m) | Efficacy (lm/w) | CRI | R9 |
|---------|--------------|-------------|-----------------|-------|----|
| 42400 | 922.46 | 28.8 | 32.03 | 49.28 | - |

BINING



- IP20: bare, max. light output and the best color consistency, indoor use.
- IP52: silicone coating, ~5% less output and 3rd best color consistency, indoor use, for damp environments.
- IP65: silicon tube/Heat shrink tube/Extrusion tube/U milky tube + clear cover, ~3% less output and 2nd best color consistency, indoor use or semi-outdoor use, for raining environments.
- IP67: silicone tube + siliconfilling, ~7% less output and 4th best color consistency, outdoor use, max length is 10 meters.
- IP67E: solid silicone extrusion, ~7% less output and 4th best color consistency, outdoor use, max length up to 50 meters.
- IP68: PU (Polyurethane), ~7% less output and 4th best color consistency, under the water, within 2 meters deep.

WIRING DIAGRAM

