



WWW.GOQ.KR

**MODEL : GOQ 3 LED
(WHITE)_ SPECTRUM
2835_6500K**



< Characteristic >

Most Preferred Best seller LED module : KS, CE, UL, RoHS Certified
Power Consumption : 0.72W
LED provided by SAMSUNG (LED : 2835)
SMD LED mounted : Made in Korea
LED Driver : Constant Voltage Driving System
Max. 50 modules in series
Design of a new and unique CAP TYPE Optical Lens
Each unit can be used to cut.
Best Viewing Angle : 170°
Constant Current Module.

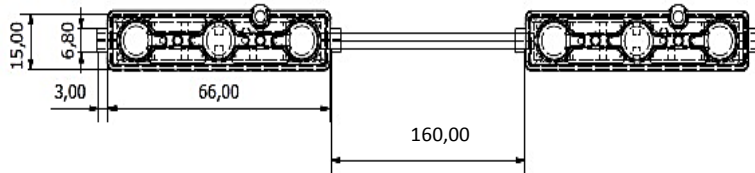
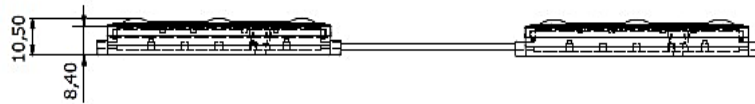
< Enhanced Function >

Stylish Appearance design : FROSTED TYPE of Optical Lens
Design for Humid & Waterproof : IP68
Easy Installation & Maintenance

< Applications >

- * Narrow size Channel letters
- * Flex light Box illumination
- * Duplex light Box illumination

< Dimension >



< Specification >

| Item | Value | Unit |
|--------------------|--------------------------------|----------|
| Product No. | GOQ 3 LED(WHITE)_2835_SPECTRUM | |
| Power Consumption | 0.72 | Watt |
| Input Voltage | 12 | VDC |
| Input Current | 60 | mA |
| View Angle | 170 | ° |
| Luminous intensity | 140 | lm(Typ.) |
| CRI | 85 | % |
| Module Pitch | 80 | mm |
| Size | 66 X 15 X 10.5 | mm |
| Weight | 8 | g |
| Max. in Series | 50 | EA |
| Operating Temp | - 30 ~ 70 | °C |
| Storage Temp | - 30 ~ 70 | °C |
| Waterproof | IP68 | |
| Cable | UL, 20AWG 300V/80°C | |
| Case materials | UL, ABS, HB-class | |
| Lens materials | UL, SAN, HB-class | |

< LED Specification >

Absolute Maximum Ratings

| Item | Symbol | Rating | Unit | Condition |
|---------------------------------|-----------|------------|---------|-----------|
| Ambient / Operating Temperature | T_a | -40 ~ +85 | °C | - |
| Storage Temperature | T_{stg} | -40 ~ +100 | °C | - |
| LED Junction Temperature | T_j | 125 | °C | - |
| Forward Current | I_f | 180 | mA | - |
| Assembly Process Temperature | - | 260 <10 | °C s | - |
| ESD (HBM) | - | 5 | kV | - |

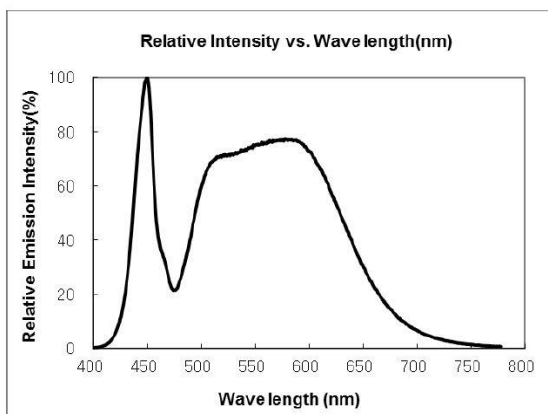
Characteristics

| Item | Unit | Rank | Bin | Min. | Typ. | Max. |
|--|------|------|-----|------|------|------|
| Forward Voltage (V_f) | V | WA | AY | 2.6 | - | 2.7 |
| | | | AZ | 2.7 | - | 2.8 |
| | | | A1 | 2.8 | - | 2.9 |
| Reverse Voltage (@ 5 mA) | V | | | 0.7 | - | 1.2 |
| Color Rendering Index (R_a) | - | | | 80 | - | - |
| Special CRI (R9) | - | | | 0 | - | - |
| Thermal Resistance (junction to solder point) | °C/W | | | - | 7.5 | - |
| Beam Angle | ° | | | - | 120 | - |

Note:

Samsung maintains measurement tolerance of: forward voltage = ± 0.1 V, luminous flux = ± 5 %, CRI = ± 3 , R9= ± 6.5

Spectrum ($T_s=25^\circ\text{C}$)



Radiation Characteristics

