지오큐 G·O·Q

WWW.GOQ.KR

MODEL : GOQ 3 LED
(BLUE)

< Characteristic >

Most Preferred Best seller LED module : CE, UL, RoHS Certified
Power Consumption : 0.72W
LED provided by DKI
SMD LED mounted : Made in Korea
LED Driver : Constant Voltage Driving System
Max. 50 modules in series
Fabricated with a CAP TYPE Optical Lens
Each unit can be used to cut.
Best Viewing Angle : **150°**

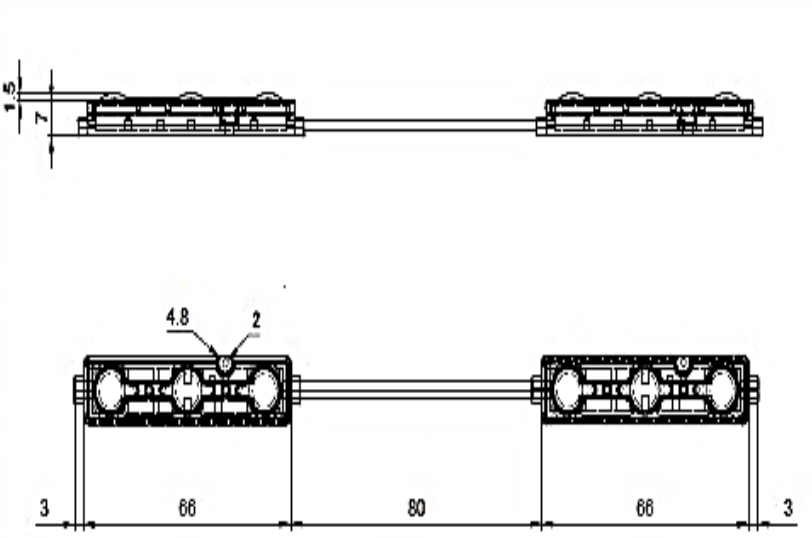
< Enhanced Function >

Stylish Appearance design : CAP TYPE
Design for Humid & Waterproof : IP68
Easy Installation & Maintenance

< Applications >

* Normal size Channel letters
* Flex light Box illumination
* Duplex light Box illumination

< Dimension >



< Specification >

Item	Value	Unit
Product No.	GOQ 3 LED(BLUE)	
Power Consumption	0.72	Watt
Input Voltage	12	VDC
Input Current	60	mA
View Angle	150	o
Luminous intensity	21	lm(Typ.)
CRI	80	%
Module Pitch	80	mm
Size	66 X 15 X 8.5	mm
Weight	8	g
Max. in Series	50	EA
Operating Temp	- 30 ~ 85	℃
Storage Temp	- 40 ~ 100	℃
Waterproof	IP68	
Cable	UL, 20AWG 300V/80℃	
Case materials	UL, ABS, V0-class	
Lens materials	UL, SAN, V0-class	

< LED Specification >

DKI Daekwang Illumination

Absolute Maximum Ratings

(Ta=25℃)

Item	Symbol	Absolute Maximum Rating	Unit
Forward Current	I_F	90	mA
Pulse Forward Current *1)	I_{FP}	270	mA
Reverse Voltage	V_R	5	V
Power Dissipation	P_D	350	mW
Operating Temperature	T_{opr}	−30~+85	℃
Storage Temperature	T_{stg}	−40~+100	℃
LED Junction Temperature	T_J	120	℃

*1) I_{FP} conditions : Pulse with tw≤0.1ms, Duty ratio≤ 1/10

※ These values are based on 3 die performance

Electro-Optical Characteristics

(Ta=25℃)

Item		Symbol	Condition	Min.	Typ.	Max.	Unit
Forward Voltage	1	VF1	I_F=60mA	3.0		3.2	V
	2			3.2		3.4	
	3			3.4		3.6	
	VF2		I_F=10uA	2.0		2.8	
Luminous intensity	D	I_V	I_F=60mA	600		800	mcd
	E			800		1000	
	F			1000		1200	
Dominant Wavelength	A	λ_D	I_F=60mA	450		454	nm
	B			454		458	
	C			458		462	
Reverse Voltage (1-die)		I_R	V_R=5V			10	uA
Half Angle		$\theta\frac{1}{2}$	I_F=60mA		±60		Deg

※ Voltage are tested at a current pulse duration of 1ms and an accuracy of ±0.05V
※ Luminous Intensity is tested at a current pulse duration of 10ms and an accuracy of ±10%.

Viewing Radiation Characteristics