

Disinfection Module Solution

Specification

CMD-FSC-COGA



Specification

CMD-FSC-COGA



Product Brief

Description

• This module is designed for disinfection.

Features and Benefits

- UVC LED
- Low thermal resistance
- Simple BOM
- Miniaturization
- Lead Free Product

Key Applications

Disinfection

Table 1. Product

	Input Current	.		Wp [nm]		
Model	[mA]	Фе [mW]	MIN	ТҮР	МАХ	Remark
CMD-FSC-COGA	400	230	270	275	280	Constant Current



Specification

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Part List

Table of Contents

Index

- Product Brief
- Table of Contents
- Performance Characteristics
- Drawing
- Packing
- Label Information
- Precaution for Use



Performance Characteristics

Table 2. Electro Optical Characteristics at 400mA(Constant Current)

(T_a=25°C RH=30%)

Specification

CMD-FSC-COGA

Parameter	Cumbal		Value		Unit
Parameter	Symbol	Min.	Тур.	Max.	Onic
Peak wavelength ^[1]	Wp	270	275	280	nm
Forward Voltage ^[5]	V _F	20.0	23.0	28.0	Vdc
Power Consumption	P _d ^[2]	8.0	9.2	11.5	w
Radiant Flux ^[3]	Фе ^[4]	187.0	230.0		mW

Notes :

- [1] Peak Wavelength Measurement tolerance : \pm 3nm
- [2] P_d can be changed by surrounding temperature and current.
- [3] Radiant Flux Measurement tolerance : ± 10%
- [4] Φ_e is the Total Radiant Flux as measured with an integrated sphere.
- [5] Forward Voltage Measurement tolerance : ±3%

*****Operating temperature was tested at the assigned T_c point on the PCB.

%It is recommended to drive under conditions of $T_c = 60$ °C or less.

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		-		1	

Table 3. Absolute Maximum Ratings

Parameter	Symbol	Unit	Value
Operating Temperature	Topr	°C	-20 ~ +40
Storage Temperature	Tstg	°C	-20 ~ +60

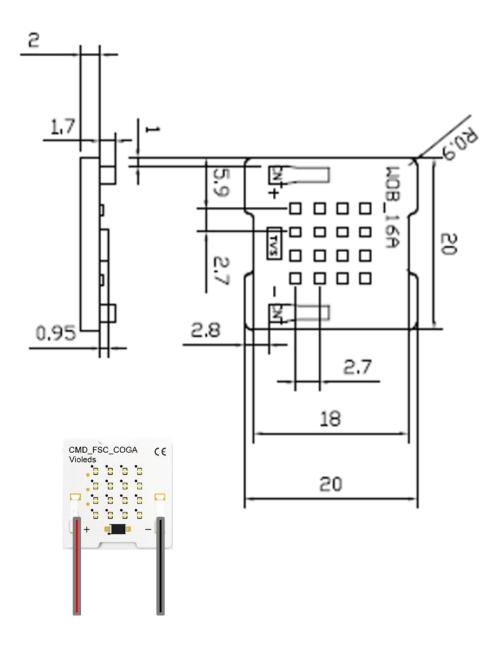


Specification

CMD-FSC-COGA

Drawing

[Unit: mm]



Notes :

- Module Dimensions of the indicated maximum value, and to allow a tolerance : ± 0.5 [mm]
- Tool to open the contact to Insert/withdraw wire.

Contact opening tool [P/N: 06-9296-7001-01-000]

Wire Size : 18AWG to 26AWG [solid/stranded copper conductor.]

Wire Trim Length : 4.5 \pm 0.5mm [AVX Connector]



Specification

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Packing

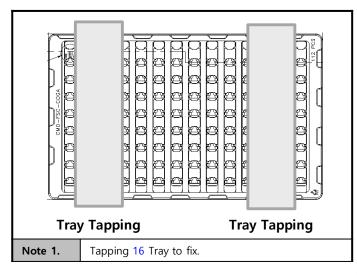
Tray

		-						-5'	10						-	
1	A-	L 1		Ø	Ø	0 0	0 0			0 0	0 0	0 0	0 0	0 0		1
320															(

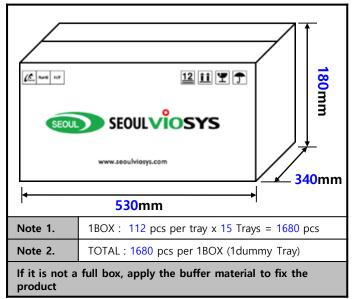
i nei ALAA

Note 1.	1 Tray = 112 pcs of products
Note 2.	Stacking 16 Trays
Note 3.	(The top tray is an empty Tray)

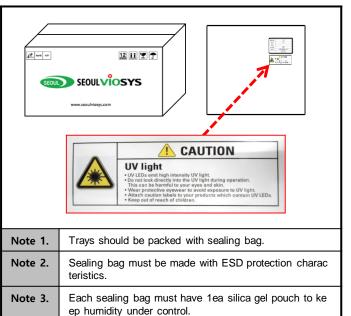
0720	Dummy Tray
Note 1.	15 tray X 112 pcs = 1680 pcs (1Tray=dummy)
Note 2.	1 tray pack 112 pcs
Note 3.	Total Quantity : 1680 pcs



Pack the tray in a box



Labeling



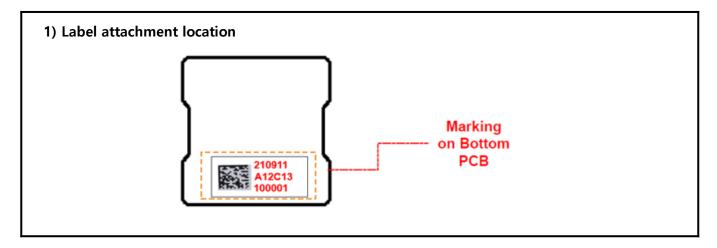
Pallet

Part	Index	Unit	Info	Remark
	Size	mm	1067*1067	
Pallet	Box quantity	ea	24	4x6 layer
	Material	Plastic	-	



CMD-FSC-COGA

Label Information



3) Label and QR CODE information

NO	ltem	Information	Digits	Va	alue	Remark
1	Date	YYMMDD	6	SMT	۲ date	Ex: 210911
			3	A12	Radiant Flux	Min 128W
2	Module Bin Code	A12C13	1	С	Wavelength	275nm
			2~7	13 or 27XXXXX	LED bin	Example. 13=DY9560-27-P-H13/ 2 digits Or 27XXXXX) 7digit*
3	Lot No	100001	6	1	Lot no	

Note* :Explain LED rank

1) Old rank LED XX : H01~HXX.(2 digits).

2) New Rank LED 27C1860 (7digits)

- + Wp (nm) bin:= 27A or 27B or 27C or 27D. (3digit)
- + Radiant Flux (mW) bin = 18 (W018) or 13 (W013) or 08 (W008)
- + Vf of LED(V) bin= 54(V540) or Or 62 (V620)

Example: **27C1860 = 27CW018V600.**



CMD-FSC-COGA

Label Information

		Model	No.		
		Тур	e		
		Quan	tity		
		Lot N	No.		
		SEOUL		SEOUL VIOSYS CO.,LTD.	
	(1)	It represe selection.	nt mod	lule part number. Refer to the page1 for part numbe	er
	(2)	YYMDD	Packir	ng Date	
		YY	last 20	digits of year(ex – 2018 → 18)	
Reference		М	Oct-A	A, Nov-B, Dec-C(1digits)	
Kererence		DD	Date(2	2digits)	
		Х	Initial	of Manufacturer(1digits)	
		XXXX	Sealin	ng Pack No(4digits)	
		-	dash		
		XXXXXXX	SVC C	Code(7digits)	
Note	(1)	It is attach	ned to t	the top right corner of the box.	

Optional

		TOTAL Quantity	
		XXX	
		SEOUL VIOSYS CO.,LTD.	
Note	(1)	It is attached to the top right corner of the box.	



Precaution for Use

1) Storage

- To avoid moisture penetration, we recommend storing UV-Module in a dry box with a desiccant. The recommended temperature and Relative humidity are between 5℃ and 30℃ and below 50% respectively.
- UV-Module must be stored properly to maintain the device. If the UV-Module is stored for 3 months or more after being shipped from SVC, a sealed container with a nitrogen atmosphere should be used for storage.
- Replace the remained UV-Module into the moisture-proof bag and reseal the bag after work to avoid those UV-Module being exposed to moisture. Prolonged exposure to moisture can adversely affect the proper functioning of the UV-Module.

2) Handling Precautions

- VOCs (Volatile organic compounds) emitted from materials used in the construction of fixtures can
 penetrate products and discolor them when exposed to heat and photonic energy. The result can be a
 significant loss of light output from the fixture. Knowledge of the properties of the materials selected to
 be used in the construction of fixtures can help prevent these issues.
- In case of attaching UV-Module, do not use adhesives that outgas organic vapor.
- Please do not use(or storage) together with the materials containing Sulfur.
- Do not use inflammable material nearby the products.
- Do not touch the products with wet hand
- Do not fix or remodel the products.
- Do not drop the machine, or give strong impact on the products.
- The UV-Module is encapsulated with special material for the highest flux efficiency. So it needs to be handled carefully as below
 - Avoid touching quartz glass parts especially with sharp tools such as Tweezers
 - Avoid leaving fingerprints cover parts.
 - UV-Module will attract dust so use covered containers for storage.
 - It is not recommend to cover the UV-Module with other materials (epoxy, urethane, etc)

3) Safety for eyes and skin

• The Products emit high intensity ultraviolet light which can make your eyes and skin harmful, So do not look directly into the UV light and wear protective equipment during operation.

4) Cleaning

• After assembly the product, empty the water and then wipe the UV-Module with a dry towel.



Precaution for Use

5) Others

• Be sure to turn On / Off after module is connected.

When connecting the module in the power on state, LED can be damaged by the influence of the inrush voltage / current.

- The driving circuit must be designed to allow forward voltage or current only when it is ON or OFF. If the reverse voltage is applied to UV-Module, migration can be generated resulting in LED damage.
- Do not handle this product with acid or sulfur material in sealed space
- Please handle using equipment that prevents static electricity.
- Do not touch unless ESD protection is used.
- Ionizer, grounding and keeping appropriate humidity are necessary for work environment.
- The appearance and specifications of the product may be modified for improvement without notice

