

Product Data Sheet

CMW-FSC-COGA

Integrated UV LED Solution

WOB_16A CMD-FSC-COGA



Product Brief

Description

- SVC UVC module is optimized to replace mercury lamp with high efficiency
- Specially designed single wavelength is ideal for disinfection
- There's no harmful substances in UV LED module. SVC product is eco-friendly product.

Features and Benefits

- Lead Free Product
- RoHS Compliant
- Eco-friendly

Key Applications

Disinfection

Table 1. UVC Module Product

Product type	Voltage [V]	Current [mA]	Radiant Power [mW]	Peak wavelength λp [nm]	Remark
UVC Module	23.0	400	145	275	Тур
	24.5	800	288	275	Maximum



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Performance Characteristics

Table 2. Electro Optical Characteristics of UVC LED Module <ts=25°c, @400n<="" constant="" current="" th=""><th>nA></th></ts=25°c,>	nA>
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Preliminary

Parameter	Symbol	Value			11
		Min.	Тур.	Max.	Unit
Forward Voltage	V _F	20.0	23.0	28.0	Vdc
Power Consumption	P _d	8.0	9.2	11.5	W
Radiant Power	Øe		145		mW
Spectrum Half Width	Δλ		10		nm
Peak Wave length	λρ	270	275	280	nm

Note :

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- [1] $\rm P_{\rm d}$ can be changed by surrounding temperature and current.
- [2] Peak Wavelength Measurement tolerance : ±3nm
- [3] Radiant Flux Measurement tolerance : \pm 10%
- [4] Φ_e is the Total Radiant Flux as measured with an integrated sphere.
- [5] Forward Voltage Measurement tolerance : $\pm 3\%$
- ***** Operating temperature was tested at the assigned Tc point on the PCB.
- ***** It is recommended to drive under conditions of Tc = 65 $^{\circ}$ C or less.



Table 3. Absolute Maximum Ratings <Ts=25°C, Constant current @800mA>

Donomotor	Symbol	Value			11
Parameter		Min.	Тур.	Max.	Unit
Forward Voltage	V _F	21	24.5	30	Vdc
Power Consumption	P _d	16.8	19.3	23.5	W
Radiant Power	Øe		288		mW
Spectrum Half Width	Δλ		10		nm
Peak Wave length	λρ	270	275	280	nm

Notes :

(1) Maximum Voltage doesn't indicate the operating voltage which customers use but means tolerable voltage according to voltage variation rate among the power sources.

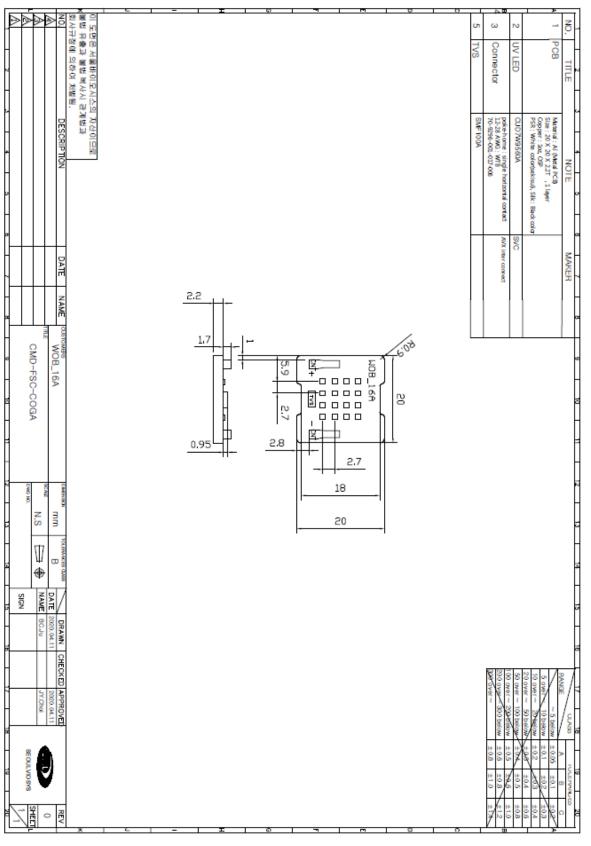




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Mechanical Dimension

Unit : mm





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Circuit Diagram

A	0	ω	2
14			
		LEDS LEDG LEDS LEDG LED LEDS LEDG LED LED LED LED LED LED LED	
Title Size A4 Date: 2020-04-1 File: C:(Upers)		LEDD LEDD LEDD LEDD LEDD LEDB	
Number Number Revision D D D D D D D D D D D D D D D D D D D	0	μ	>



Preliminary

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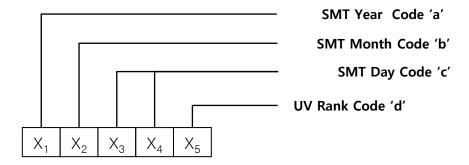
Marking Information

-.QR Code & Lot marking information for Label

PCB Bottom



Lot Marking



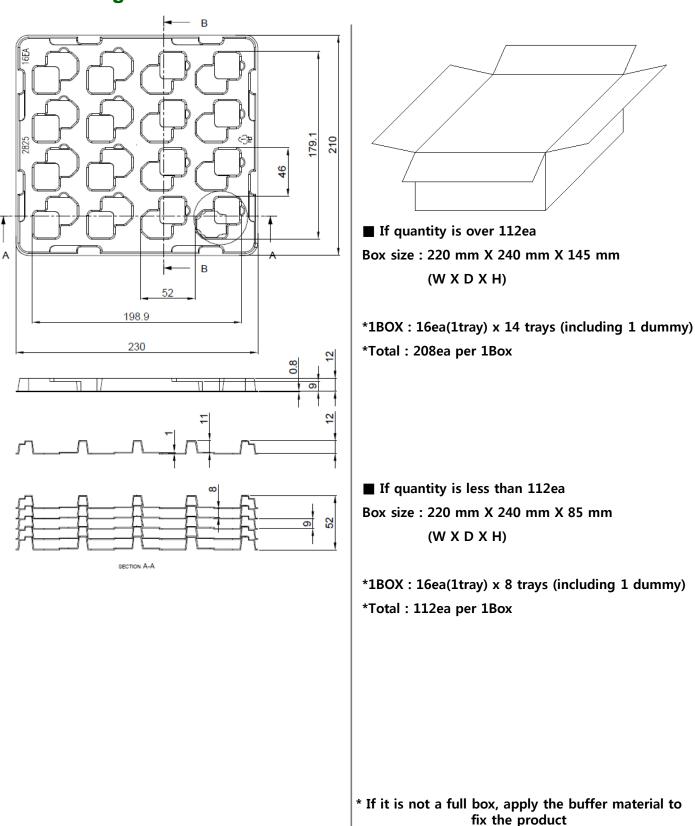
Ex) SMT Lot No : 200409 -> E409 Rank Information : H01 -> H01



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Packing





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Label Information

Box and tray Label

Model No.	CMD-FSC-COGA
Туре	
Quantity	ea
Lot No.	YYMDDXXXXX-xxxxxxx ⁽²⁾
SEOUL	SEOUL VIOSYS CO.,LDT

Reference

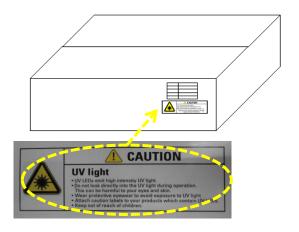
(1) It represent module part number.

(2) YYMDD	: Packing Date
YY	: last 2digits of year(ex – 2018 \rightarrow 18)
Μ	: Oct-A, Nov-B, Dec-C(1digits)
DD	: Date(2digits)
х	: Initial of Manufacturer(1digits)
XXXX	: Sealing Pack No(4digits)
-	: dash
XXXXXXX	: SSC Code(7digits)

Note

(1) It is attached to the top right corner of the box.

* Labeling





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Precaution for Use

- Storage 1)
 - To avoid moisture penetration, we recommend storing products in a dry box with a desiccant. The recommended temperature and Relative humidity are between 5 $^\circ$ C and 30 $^\circ$ C and below 50% respectively.
 - Products must be stored properly to maintain the device. If the products are stored for 3 months or more after being shipped from SVC, a sealed container with a nitrogen atmosphere should be used for storage.
 - Prolonged exposure to moisture can adversely affect the proper functioning of the Products.
 - Keep the products away from the kid
- 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 using the products, do not use adhesives that outgas organic vapor.
 - Please do not use together with the materials containing Sulfur.
 - Please do not assemble in conditions of high moisture and/or oxidizing gas such as CI, H2S,NH3,SO2,NOX,etc.
 - Do not apply mechanical force or excess vibration during the cooling process to normal temperature after soldering. •
 - Do not use inflammable material nearby the products. ٠
 - 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. ٠
 - Cover needs to be handled carefully as below
 - Avoid touching cover parts especially with sharp tools such as pincettes(Tweezers)
 - Avoid leaving fingerprints Cover parts.
 - Cover will attract dust so use covered containers for storage.
 - It is not recommend to cover of the Lamp 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) Operation
 - The module should be operated under the given forward voltage and current. When the module is operated in the excessive voltage or current conditions, the LEDs mounted on the product could be burned out.
 - · This module is not allowed to be used in any type of fluid such as water, oil, organic solvent, etc



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Precaution for Use

- 5) Others
 - The appearance and specifications of the product may be modified for improvement without notice.
 - The driving circuit must be designed to allow forward voltage only when it is ON or OFF. If the reverse voltage is applied to LED, 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, earthing and keeping appropriate humidity are necessary for work environment.

