SPECIFICATION

Product : UV CoB Module

Part No. : IWC-C44R2-V39-1102

Date : 2014. 06. 09 Ver. 0.1

Proposed By	Checked By	Checked By	Checked By	Approval
결 재 완 료				

Comment

ITSWELL

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1. Features

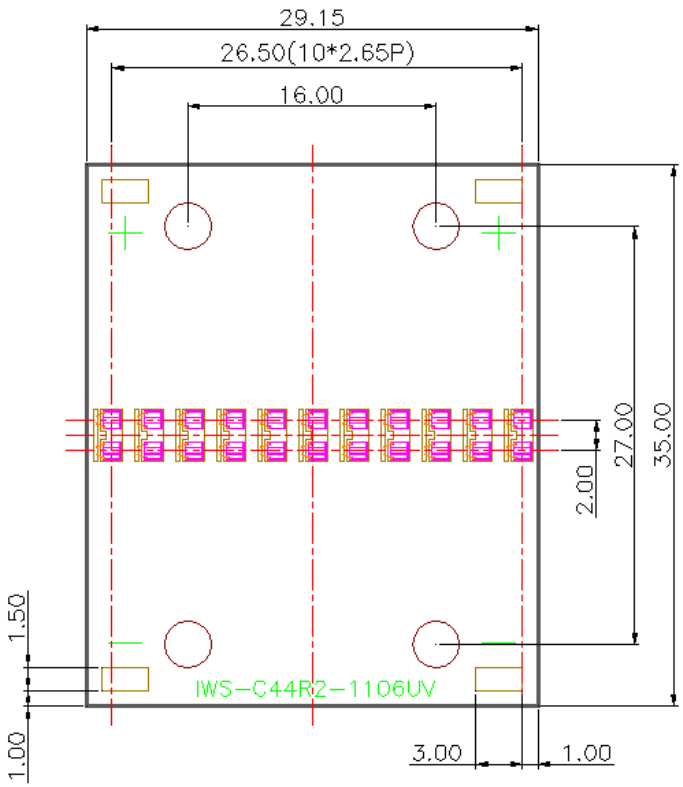
- High Power UV CoB Module
- High-flux Module : 29.15 x 35.0 x 2.0 mm
- Wide Viewing Angle : 120˚

2. Applications

- Lithography
- UV Curing
- Phototherapy
- Air / Water Purification
- Analytical Instruments
- Tanning

3. Outline Drawing and Dimension

< Unit : mm, Tolerance : ±0.2mm >



Note

1. All dimensions are in millimeters
2. All dimensions without tolerances are for reference only

4. Absolute Maximum Ratings (Ta = 25 ℃)

Parameter	Symbol	Value	Unit
Power Dissipation	P_d	40.0	W
Continuous Forward Current	I_F	1,000	mA
Peak Forward Current ※1	I_{FP}	2,000	mA
Operating Temperature	T_{opr}	-30 ~ +60	℃
Storage Temperature	T_{stg}	-40 ~ +85	℃
Soldering Temperature	T_{sol}	260 (5sec)	℃

※1 Duty ratio = 1/10, Pulse width = 1ms

5. Electrical & Optical Characteristics (Ta : 25℃)

Parameter	Symbol	Conditions	Min.	Typ.	Max.	Unit.
Forward Voltage	V_F	I_F = 700mA	36.0	-	40.0	V
Radiant Flux※2	Φ_e	I_F = 700mA	7,000	-	9,000	mW
Peak Wavelength	W_p	I_F = 700mA	390	-	400	nm
Viewing Angle※3	$2\theta_{1/2}$	I_F = 700mA	-	120	-	deg.

※2 Radiant Flux is measured with an integrating sphere and has an accuracy of 10%.

※3 Viewing Angle is the angle until 50% of brightness measured from the front part of LED.

5.1 Radiant Flux Rank

Rank	Radiant Flux (mW)
F	7,000 ~ 9,000

5.2 Forward Voltage Rank

Rank	Forward Voltage (V)
1	36.0 ~ 40.0

5.3 Peak Wavelength Rank

Rank	Peak Wavelength (nm)
Va	390 ~ 400