

FUV(Far UV) Sensor Module

GFUV-T10GM-LA-L



Description

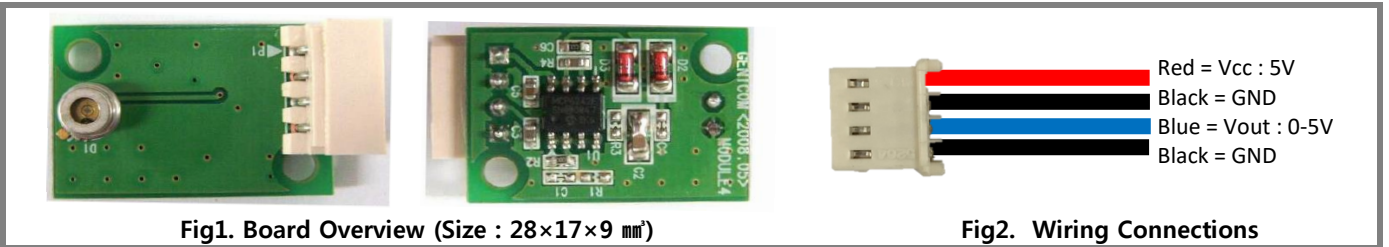
Genicom UV sensors make the photocurrent under UV light but its level is very low. Therefore the output current has to be amplified by proper gain to analog voltage.

Features

- Single Supply Voltage, 0-5V Voltage Output

Applications

Far UV Lamp Monitoring(222nm) ,Excimer Lamp Monitoring



Absolute Maximum Ratings

Parameter	Symbol	Value			Unit	Remark
		Min.	Typ.	Max.		
Storage Temperature	T _{st}	-40		90	°C	
Operating Temperature	T _{op}	-30		85	°C	
Supply Voltage	V _{cc}		5		V	DC
Soldering Temperature	T _{sol}			260	°C	Within 10 sec

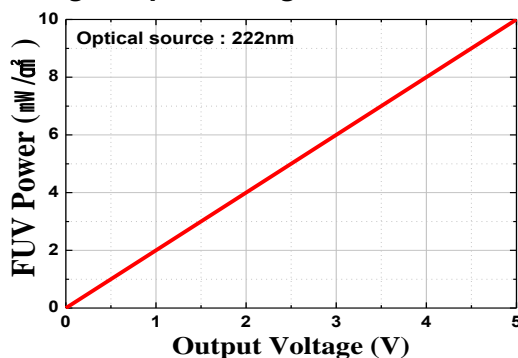
Electro-Optical Characteristics (at 25 °C)

Parameter	Symbol	Value			Unit	Remark
		Min.	Typ.	Max.		
Supply Voltage	V _{cc}		5		V	DC
Operating Current	I _Q		0.05		mA	
Spectral Detection Range	λ		222		nm	Far UV
Output Voltage	V _{out}	0		5	V	
Detection Power Range*	P	0		10	mW/cm ²	V _{cc} = 5V
Response Time	T		10		ms	

*Reference meter: Hamamatsu H9535-222

*Optical source: Edenpark illumination(222nm)

FUV Power along Output Voltage



$$\text{FUV Power (mW/cm}^2\text{)} = \text{Vout (V)} \times 2$$

※Caution

ESD can damage the device hence please avoid ESD. Insulate the cap of TO-CAN or it can cause malfunction of the device.