



# Electro Optical Components, Inc.

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## UV Sensor Probe

**GUVx-T1xGC-5LW9**



### Features

- Single Supply Voltage, Analog Voltage Output, Cable length : 1m
- Water Environment (10 bar)

### Applications

UV Curing Lamp Monitoring

Sterilization Lamp Monitoring



Fig1. UV Sensor Probe

### Case dimensions

Thread/Length for Mounting	PT 3/4" / 11 mm
Diameter (mm)	23
Window (mm)	12
Wrench Size (mm)	30
Depth (mm)	11.5
Length (mm)	41.5
Case Material	STS 316-L

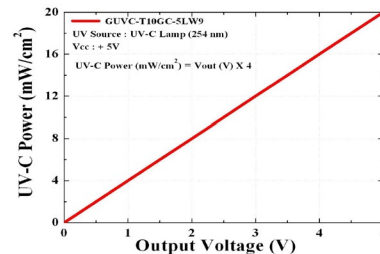
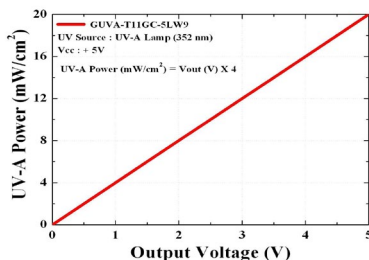
### Absolute Maximum Ratings

Parameter	Symbol	Min.	Typ.	Max.	Unit	Remark
Storage Temperature	T <sub>st</sub>	-40		90	°C	
Operating Temperature	T <sub>op</sub>	-30		85	°C	

### Electro-Optical Characteristics (at 25 °C)

Parameter	Symbol	Min.	Typ.	Max.	Unit	Remark
Supply Voltage	V <sub>cc</sub>		5		V	DC
Supply Current	I <sub>Q</sub>		0.05		mA	
Detection Range	GUVA-T11GC-5LW9	λ	220	370	nm	10% of Max.
	GUVc-T10GC-5LW9	λ	220	280	nm	10% of Max.
Output Voltage	V <sub>out</sub>	0		5	V	
Detection Power Range	P	0		20	mW/cm <sup>2</sup>	
Response Time	T		10		ms	

### Output Voltage along UV power



$$\text{UV Power (mW/cm}^2\text{)} = \text{Vout (V)} \times 4$$

\* Cover thread with teflon tape or ceramo paste before turning in. Please also use a sealing ring behind thread.