

FAQ

Subject : Application Circuit

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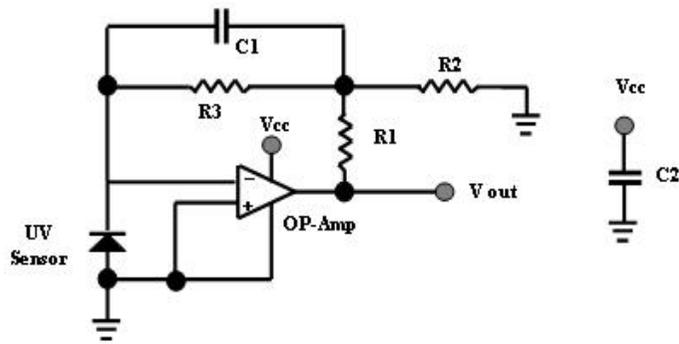


Fig. 1 Application circuit of UV Sensor

GUVA-S12SD



Fig. 2 Application module of UV Sensor

Part No.	Model or Value	Function	Remark
UV Sensor	UV Index : GUVA-S12SD, GUVB-S11GD UV LED monitoring : GUVV-S10SD Sterilization : GUVV-T10GD	UV Sensing	Anode connects to ground.
Op-Amp	MCP6241 (Vcc=1.8 ~ 5.5 V) LMC6081 (Vcc=4.5 ~ 15 V) OPA237 (Vcc=2.7 ~ 36 V)	Amplification	Input Offset Current < 1 nA
C1	1 nF	Decreasing the input noise	Decrease the value for fast response (e.g. 100 pF), Increase the value for small error (e.g. 10 nF)
C2	0.1 μF	Stabilization of power	Internal voltage of capacitor > Vcc
R1, 2, 3	GUVA-S12SD : R3=6.8MΩ, R1=0Ω, R2=X GUVB-S11GD: R3=10MΩ, R1=11kΩ, R2=1kΩ GUVV-T10GD: R3=7.5MΩ, R1=0Ω, R2=X	Decide the output voltage	Gain : $R3 \times (1+R1/R2)$