

PPM-JT3

Product Datasheet

SPECIFICATIONS



UVC LED Purple Planet Mods

【1】 Scope of Application

This datasheet applies to: UVC-LED Static Water Sterilization Modules.

【2】 QUOTED STANDARD

GB/T4827-2015

【3】 PRODUCT NAME AND PARTNUMBER

Product Name	Product Model
UVC-LED Static Water Sterilization Module	PPM-JT3

【4】 SPECIFICATIONS

Item		Specification
1	Main Material	UV-Resistant Food-Grade POM
2	Rated Voltage	DC12V-DC24V
3	Rated Input Current	100mA
4	LED Rated Current	100±2mA
5	Waterproof Rating	IP67
6	Operating Temperature Range	<65°C

【5】 PERFORMANCE

Item		Specification
1	UV Power	25-35mW
2	UV Wavelength	270nm-280nm
3	UVC LED Beam Angle	120°
4	LED Lifetime (L50)	>6000h
5	Insulation Dielectric	DC500V(50HZ)/1min
6	Lead Wire Strength	Withstand a tensile force of $\geq 30\text{N}$

【6】 TEXT METHOD

6=1 UV Power Test: Measure the UV output power of the module using an integrating sphere. The output power shall be $\geq 6\text{mW}$.

6=2 UV Wavelength Range Test: 270nm—280nm

6=3 Insulation Withstand Test: Apply AC 1500V, 50Hz between live parts and the housing for 1 minute. No breakdown or insulation failure shall occur.

6=4 Lifetime Test: Operate the LED at DC 24V under room temperature for 8,000 hours.

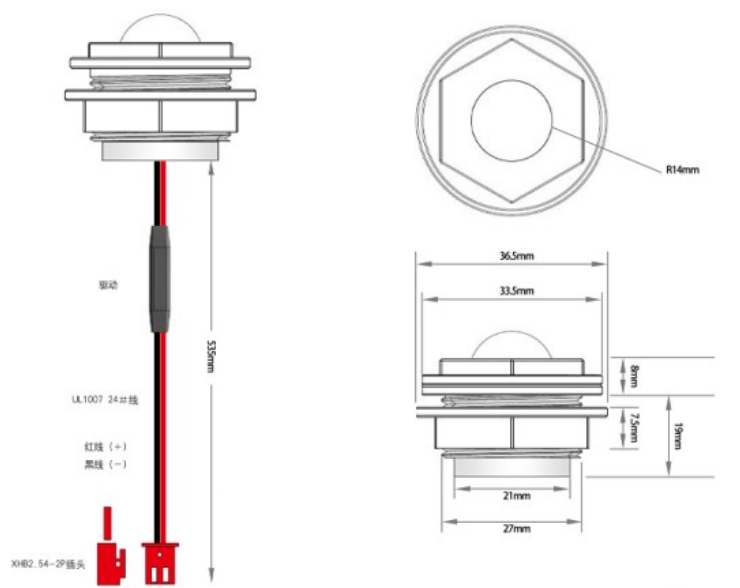
The power degradation shall be $\leq 25\%$, with no other abnormal performance observed.

6=5 Sealing Test: Test the LED module sealing performance under 0.3MPa water pressure for 10 seconds. No leakage shall occur.

6=6 High and Low Temperature Test: The product shall operate reliably within -25°C to 50°C and be stored reliably within -40°C to 60°C.

【7】PRODUCT DIMENSION DRAWING

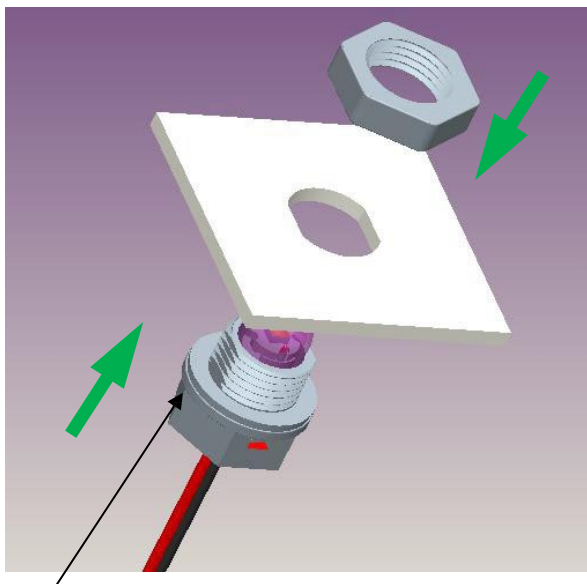
Wire Length Can Be Customized According to Customer Requirements



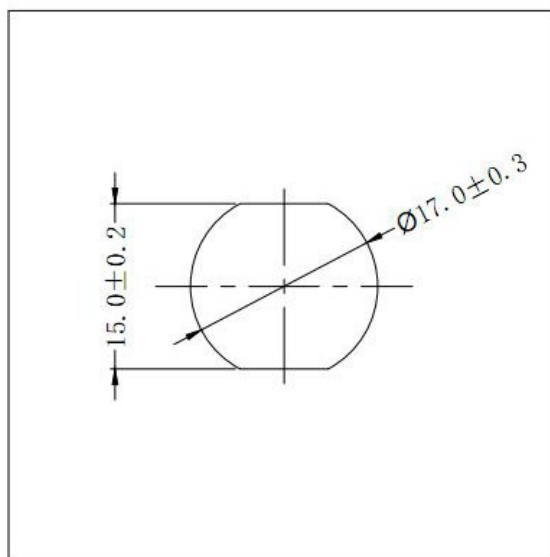
【8】PRODUCT IMAGE



【9】 INSTALLATION INSTRUCTIONS



Waterproof Gasket



Cutout Size

Insert the light-emitting surface through the mounting hole from the bottom of the board and secure it with a nut on the top side. The cutout size is shown in the figure.