

PPM-JT1B

Product Datasheet SPECIFICATIONS

UVC LED Purple Planet Mods



深圳市华瑗科技有限公司
ShenZhen HUAAI Technology Co., Ltd.



深圳市紫色星球科技有限公司
ShenZhen Purple Planet Technology Co., Ltd.

Add: 7th Floor, South Side of Building B2,
CIMC Shanghe Aerospace Industrial Park,
Bao'an District, Shenzhen, Guangdong, China
Tel: 0755 23351635 0755 23358796 (Fax)

1 Product Image



PPM-JT1B UVC-LED Static Water Sterilization Module

2 Scope of Application:

This module features a bottom flange with two mounting holes and is suitable for static UVC-LED sterilization applications in air and liquid. Recommended cutout size: 13.4 ± 0.3 mm.

Widely used in water dispensers, ice makers, air humidifiers, air purifiers, aroma diffusers, pet water fountains, dishwashers, and other products.

3 Applicable Standards: GB/T 4827-2015

Water Safety – Compliant with Drinking Water and Food Hygiene Safety Requirement

4 Product Specifications:

- ConstantVoltageDrive:DC12V
- Wire Specification: UL2468 , 24AWG Twin Wire, Length Customizable
- Terminal Specification: 2-Pin
- Waterproof Rating: Front Side (Quartz Window): IP68
- Operating Temperature: -25~60°C

5 Product Performance:

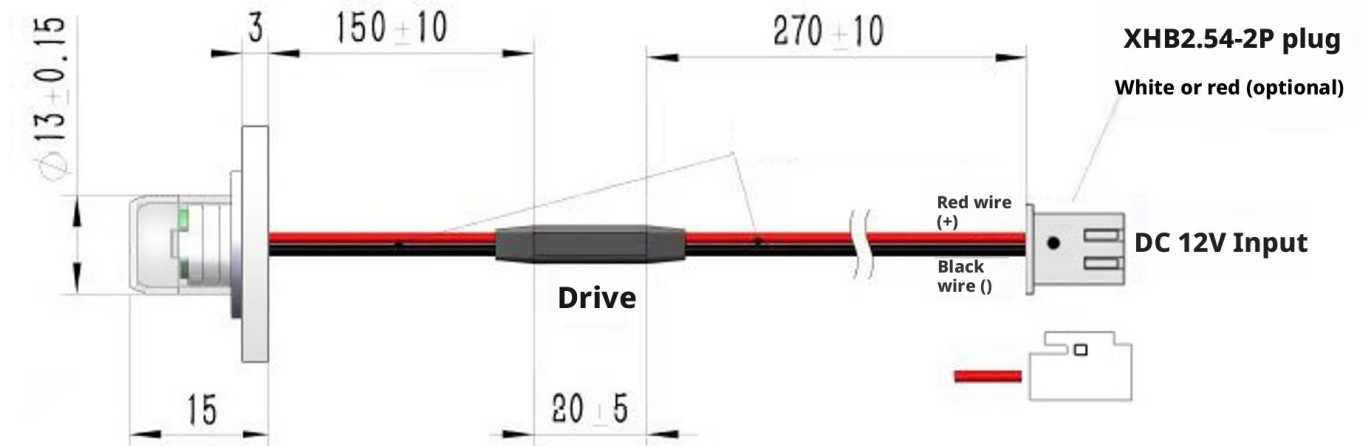
Model	Input Voltage	Operating Current	LED Optical Power	Beam Angle
PPM-JT1B	DC12V	40mA	8-10mW	120°

Insulation Withstand Voltage: DC500V+2V_{in} / 1 min

6 Test Method:

- UV Power Test: Measure the UV power output of the module using an integrating sphere. The output shall meet the specified value.
- UV Wavelength Range Test : 270~280 nm
- Insulation Withstand Test: Apply AC 1500V, 50Hz between live parts and housing for 1 minute. No breakdown shall occur.
- High and Low Temperature Test: The product shall operate reliably at -25~60°C and be stored reliably at -40~85°C.

7 Dimensions

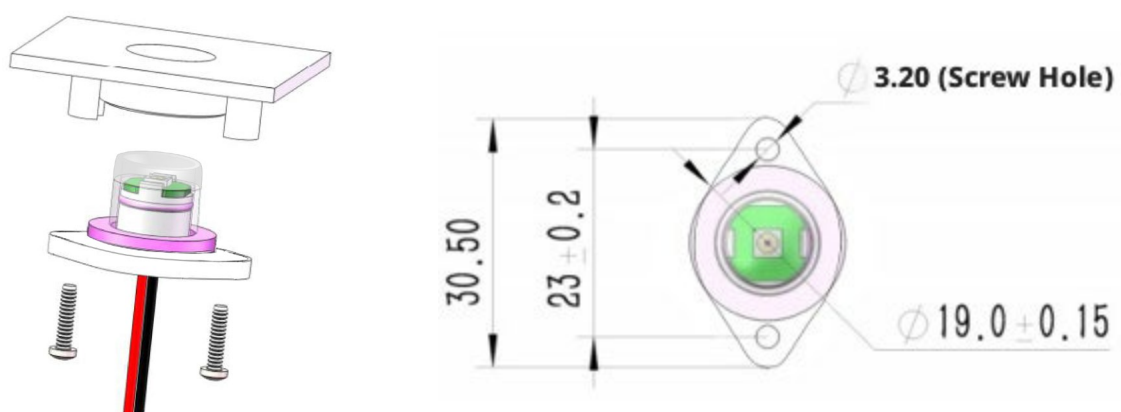


Diameter: mm

Tolerance: ± 0.5 mm

Note: Terminal Wire Specification: 2-Pin, XH25043-2P, Red/Black Wire, Wire Diameter: 1.6mm, White Terminal. Terminal can be customized according to customer requirements.

8 Operating Instructions





9 Important Safety Instructions

- This product emits deep UV light when powered on. Exposure to UV light may cause skin and eye damage. Avoid direct exposure without proper protection.
- Never look directly at the emitted deep UV light with bare eyes.

