

633nm single mode fiber isolator



● Product Description

Idealphotonics' visible light isolator products can maintain excellent return light isolation performance under any polarization state. It has low loss, high isolation, high return loss, low polarization-dependent loss, low polarization mode dispersion, wide operating band and operating temperature range, and no glue in the optical path. These properties provide the possibility of low-cost solutions for communication networks. This series of products can be used in RGB system research, fiber optic equipment and lasers. Our pigtailed have better optical performance with the help of our SM600 single-mode optical fiber and HB600 polarization-maintaining optical fiber. The excellent performance makes it more compatible with our 633nm single-mode polarization-maintaining fiber coupler.

● Part Number

VIS-ISO-W633-S11-P1-1-9-SA

● Product features

Wide operating wavelength rang & wide operating temperature range、 Low

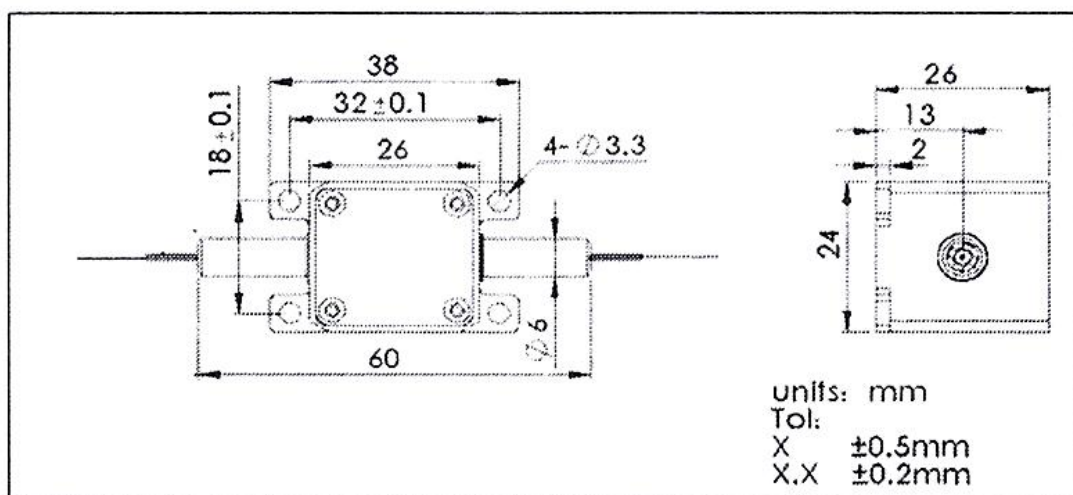
insertion loss & high isolation、 Low polarization-dependence loss and polarization mode dispersion、 No glue in the optical path、 High reliability and stability

● Application area

Fiber amplifier、 WDM & DWDM system、 Fiber equipment、 Fiber laser

Parameters

Dimensional Drawing



Parameter

| Parameters | Unit | Value | Note |
|------------------------------|------|-------------------|-------------------------------------|
| Central wavelength (nm) | nm | 633 | Other wavelengths can be customized |
| Insertion loss | dB | ≤4.5 | 633nm,3mw,DFB |
| Isolation | dB | ≥16 single degree | @25 celsius |
| Polarization-dependent loss | dB | | ≤0.1dB |
| Fiber type | N/A | Nufern PM630HP | Other fiber types available |
| Extinction ratio | dB | | 18 |
| Axis alignment | | | Slow axis alignment |
| Polarization film dispersion | Ps | | <0.25 |
| Polarization dispersion | Ps | | <0.05 |

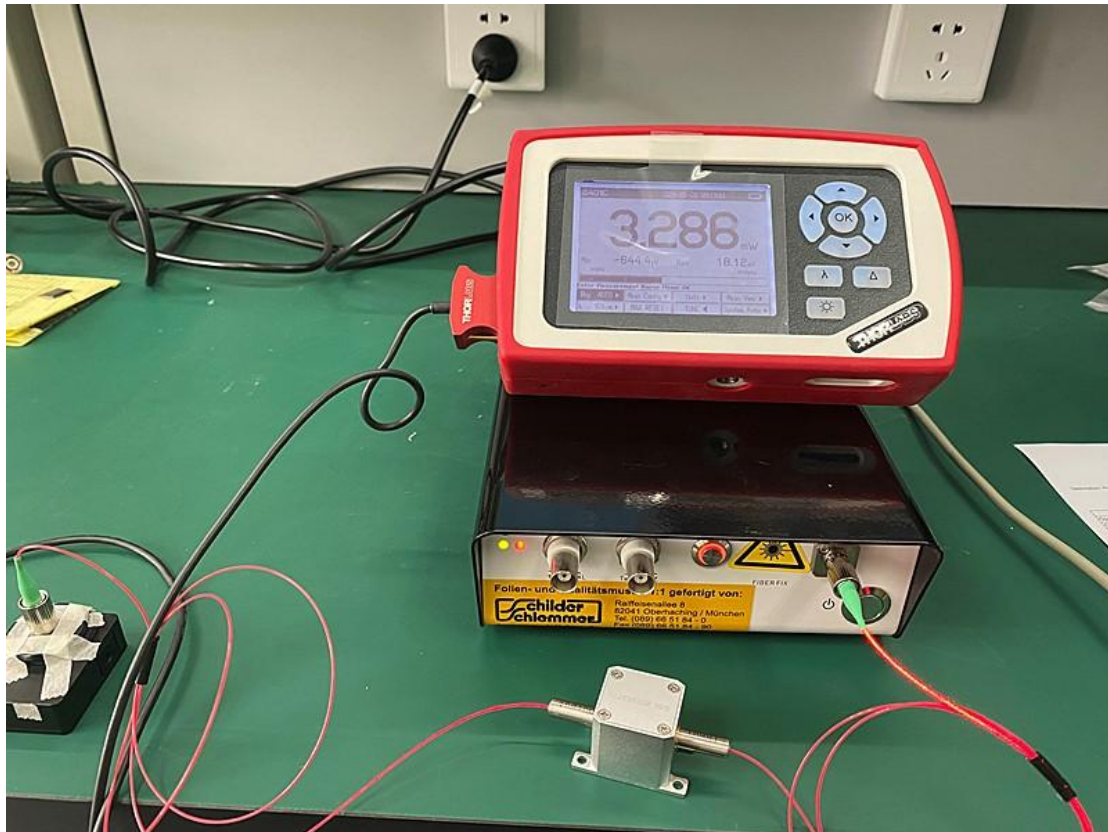
| | | |
|------------------------------------|----|----------------------|
| Return loss (incoming/outgoing) | dB | >45dB |
| Maximum operating power | mW | 500 |
| Operating temperature | °C | -5-70°C |
| Storage temperature | °C | -40-85°C |
| Test light source | | 633nm benchtop light |
| Package size(mm) | | As shown below |

Notes:

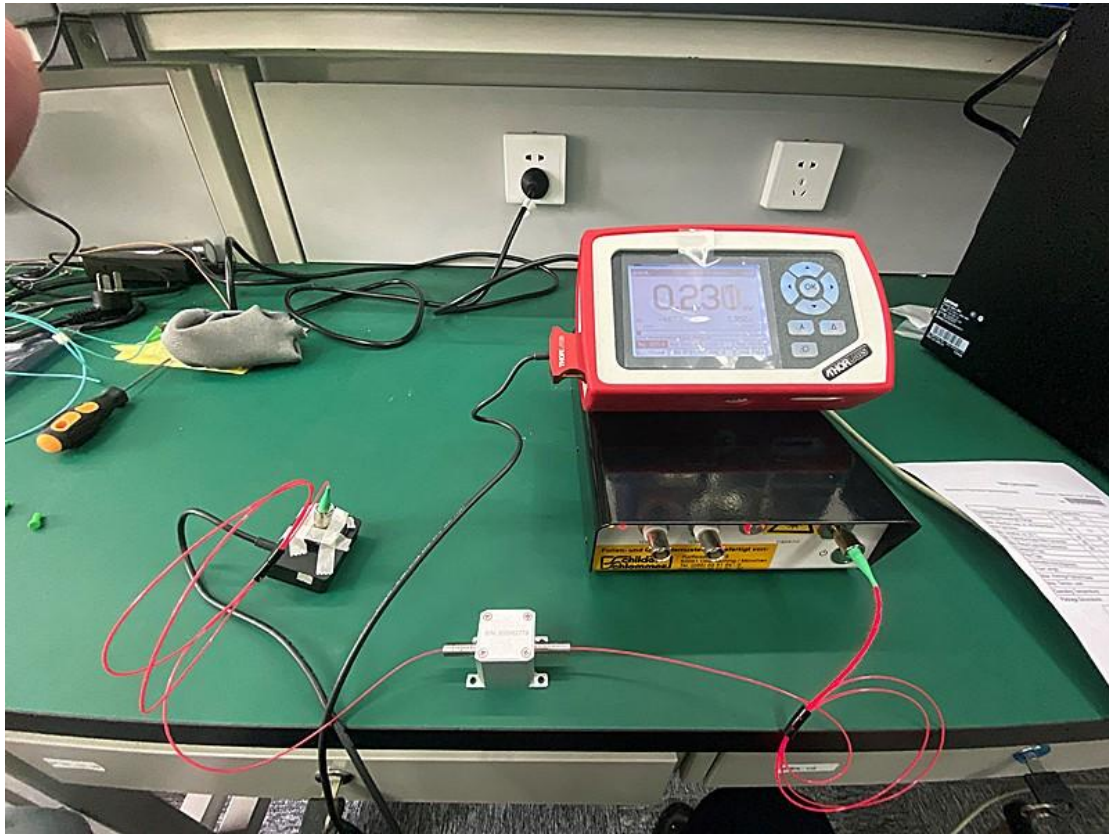
*. All indicators are without connectors and are only valid at the above wavelengths, polarization states and temperatures

**. Indicators are subject to change without prior notice

Actual test results (633nm 4.7mw DFB laser test results):



Forward



backward

Ordering Information

VIS-ISO- W□□□□-SO-P▽-☆-△-XX

W□ □□□: Wavelength

532:532nm

633:633nm

850: 850nm

SO: Stage Numbers

11: single pole isolator

P▽: Package

1: Standard

2: Mini

☆:Pigtail Length

05:0.5m

1: 1m

10:10m

△: Loose Tube

B:Bare Fiber

9:900um Loose Tube

20:2mm Loose Tube

30: 2mm Loose Tube

XX: Fiber and Connector Type

SA=SM600+ FC/APC

SP=SM600+ FC/PC

PA=PM630 Fiber+ FC/APC

PP=PM630 Fiber+ FC/PC