

[OEPAS-VWI-100]

## Visible Wavelength Isolator (Polarization dependent)

### Features:

- Minimize the feedback in optical systems
- Free space, receptacle and fiber pigtail type available
- Thread holes for easy mounting
- Fixed wavelength ranges
- Isolation up to 30 dB
- Apertures up to 2.5 mm
- Polarization-Dependent Input

### Applications:

- System testing
- Research and development
- Fiber optic component testing and measurement
- Back reflection protection



Fig.1. Free Space Isolator



Fig. 2. Receptacle Isolator

### Product description:

The new type of visible wavelength isolator is used to protect a light source from back reflection. Back reflection can damage a laser source or cause it to mode hop, amplitude modulates, or frequency shift. In high-power applications back reflections can also cause instabilities and power spikes. Our visible wavelength isolator is a passive optic device that preferentially transmits light along a single direction, shielding upstream optics from back reflections. Our new visible wavelength isolator is polarization dependent. The model number is OEPAS-VWI-100.

**Product specifications:**

<b>Model number</b>	<b>Unit</b>	<b>OEPA5-VWI-100</b>
Type		Fixed Wavelength
Versions available		Free space-to-Free space
		Fibre Pigtail
		Receptacle-to Receptacle
Connectivity		Free space
		Receptacle for FC/PC or FC/APC
		Fibre pigtail
Center wavelength	nm	400-2000
Fibre type		Single-mode (SM)
		Multi-mode (MM)
		Polarization-maintaining (PM)
Cable jacket size	mm	0.9
		3
Isolation	dB	>30
Input beam aperture (max)	nm	2.5
Operating temperature	°C	0-50
Storage temperature	°C	-40 to 70
Dimensions (Diameter x Length)	mm	40x37(Free space version)

*\* Some limitations apply.*

*\*\*Tuning range can significantly vary depending on FBG specifications.*

*\*\*\* Recommended values. The ambient environment temperature can limit the performance, incl. the tuning range.*