

1064 nm, 50 W Polarization-Independent Fiber to Free-Space Isolator



IOK-1064-LMA25-CRED

Specifications

- **Wavelength:** 1064 ± 10 nm
- **Power:** 50 W CW, 10 kW Peak, 25 W Average
- **Isolation:** >30 dB
- **Insertion Loss:** <0.45 dB
- **Return Loss:** >50 dB
- **Fiber:** LMA25

The IOK-1064-LMA25-CRED is a fiber to free-space isolator for high-power applications in the 1054 to 1074 nm range. Utilizing our experience in high-power fiber coupling, we have been able to fabricate this isolator so that it can withstand CW laser powers up to 50 W. This isolator has the added benefit that a red aiming laser with transmission in the 633 to 690 nm range can be

coupled into the LMA25 fiber prior to entering the isolator. This aiming feature is extremely useful when working with a free-space IR beam. Mounting holes on the output facet allow components such as beam expanders to be attached. When no beam expander is attached, a Ø1 mm collimated beam exits the isolator centered on the body with a divergence that is less than 3 mrad.

ITEM #	\$	£	€	RMB	CONNECTOR	DESCRIPTION
IOK-1064-LMA25-CRED	\$ 1,850.00	£ 1,332.00	€ 1,609.50	¥ 14,744.50	None	50 W Fiber to Free-Space Isolator, 1064 nm

1310 nm, 300 mW Polarization-Independent Fiber Isolators



IO-H-1310

The IO-H-1310, IO-H-1310APC, and IO-H-1310FC polarization-independent fiber isolators are designed for use in the 1290 to 1330 nm range. The IO-H-1310APC and IO-H-1310FC have FC/APC- and FC/PC-connectorized endfaces, respectively. Due to the polarization-independent nature of these isolators, the insertion loss and the isolation value will not change with respect to the input or returning light's state of polarization.

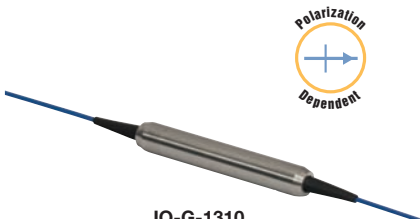
Specifications

- **Wavelength:** 1310 ± 20 nm
- **Power:** 0.3 W CW
- **Isolation:*** 35 – 40 dB
- **Insertion Loss:** 0.3 – 0.7 dB
- **PDL:** ≤0.10 dB
- **Return Loss:** >55 dB
- **Fiber:** SMF-28e+

*Isolation is both wavelength and temperature dependent (not for use in pulsed laser applications)

ITEM #	\$	£	€	RMB	CONNECTORS	DESCRIPTION
IO-H-1310	\$ 160.00	£ 115.20	€ 139.20	¥ 1,275.20	None	Low-Power, SM Fiber Isolator, 1310 nm
IO-H-1310APC	\$ 200.00	£ 144.00	€ 174.00	¥ 1,594.00	FC/APC	Low-Power, SM Fiber Isolator, 1310 nm
IO-H-1310FC	\$ 180.00	£ 129.60	€ 156.60	¥ 1,434.60	FC/PC	Low-Power, SM Fiber Isolator, 1310 nm

1310 nm, 300 mW Polarization-Dependent Fiber Isolator



IO-G-1310

Specifications

- **Wavelength:** 1310 +20 nm
- **Power:** 0.3 W CW (Max)
- **Isolation:*** 40 dB
- **Insertion Loss:** ≤0.6 dB
- **Extinction Ratio:** ≥20 dB
- **Return Loss:** ≥55 dB
- **Fiber:** PM, Panda

*Peak isolation. Isolation is both wavelength and temperature dependent (not for use in pulsed laser applications)

The IO-G-1310 low-power, polarization-dependent fiber isolator utilizes PM fiber on both the input and the output of the isolator. It is aligned for transmission along the slow axis of the fiber. Any signal not aligned with the input slow axis will be blocked. In the reverse direction, light with any state of polarization will be isolated. The IO-G-1310 fiber isolator is designed to provide up to 40 dB isolation in the 1290 to 1330 nm range.

ITEM #	\$	£	€	RMB	CONNECTORS	DESCRIPTION
IO-G-1310	\$ 390.00	£ 280.80	€ 339.30	¥ 3,108.30	None	Low-Power, PM Fiber Isolator, 1310 nm

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