

## 1064 nm, 250 mW Polarization-Independent Fiber Isolators



IO-H-1064

### Specifications

- **Wavelength:** 1064 +20/-4 nm
- **Power:** 250 mW
- **Isolation:**\* 33 dB @ 1064 nm
- **Insertion Loss:** 1.4 – 2.0 dB
- **PDL:** ≤0.15 dB
- **Return Loss:** >50 dB
- **Fiber:** HI1060

\*Isolation is both wavelength and temperature dependent (not for use with pulsed applications)

The IO-H-1064 and IO-H-1064APC narrowband, polarization-independent fiber isolators are designed for use in the 1060 to 1084 nm range.

To reduce package size, Bismuth Iron Garnet (BIG) film is used as the Faraday rotating material since it has a very high Verdet constant and is relatively inexpensive. However, absorption increases rapidly at wavelengths shorter than 1060 nm.

ITEM #	\$	£	€	RMB	CONNECTORS	DESCRIPTION
IO-H-1064	\$ 1,450.00	£ 1,044.00	€ 1.261,50	¥ 11,556.50	None	Low-Power, SM Fiber Isolator, 1064 nm
IO-H-1064APC	\$ 1,490.00	£ 1,072.80	€ 1.296,30	¥ 11,875.30	FC/APC	Low-Power, SM Fiber Isolator, 1064 nm

## 1064 nm, 300 mW Polarization-Dependent Fiber Isolator

**NEW**  
product



IO-G-1064

### Specifications

- **Wavelength:** 1064 +5 nm
- **Power:** 0.3 W CW (Max)
- **Isolation:**\* ≥35 dB
- **Insertion Loss:** ≤1.8 dB
- **Extinction Ratio:** ≥20 dB
- **Return Loss:** ≥50 dB
- **Fiber:** PM980

\*Within operating range at 23 °C. Isolation is both wavelength and temperature dependent (not for use in pulsed laser applications)

The IO-G-1064 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-1064 fiber isolator is designed to provide 35 dB isolation in the 1059 to 1069 nm range.

ITEM #	\$	£	€	RMB	CONNECTORS	DESCRIPTION
IO-G-1064	\$ 460.00	£ 331.20	€ 400,20	¥ 3,666.20	None	Low-Power, PM Fiber Isolator, 1064 nm

## 1064 nm, 3 W Polarization-Dependent Fiber Isolators



IO-J-1064

### Specifications

- **Wavelength:** 1064 ± 10 nm (IO-J-1064)
- **Max Power:** 3W (CW)
- **Isolation:**<sup>a</sup> 32 – 38 dB (IO-J-1064)
- **Insertion Loss:**<sup>b</sup> 0.6 – 1.3 dB (IO-J-1064)
- **Extinction Ratio:** >20 dB
- **Return Loss:** >50 dB
- **Fiber:**<sup>c</sup> PM 980/1064 (IO-J-1064)

<sup>a</sup>Not for use with pulsed applications or feedback.

<sup>b</sup>Device aligned for transmission along the slow axis; light launched into the fast axis is not transmitted

<sup>c</sup>PM fiber 400 μm buffer with loose Hytrel tubing

These low-power polarization-dependent fiber isolators, which utilize PM fiber on both the input and output of the isolators, are designed for CW applications up to 3 W. The devices are 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.

ITEM #	\$	£	€	RMB	CONNECTORS	DESCRIPTION
IO-J-1064	\$ 1,935.00	£ 1,393.20	€ 1.683,45	¥ 15,421.95	None	Low-Power, PM Fiber Isolator, 1064 nm
IO-J-1064APC	\$ 2,035.00	£ 1,465.20	€ 1.770,45	¥ 16,218.95	FC/APC	Low-Power, PM Fiber Isolator, 1064 nm