

## Fiber Optics

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# 10W Polarization Independent Fiber Isolator, Single Mode Fiber

The new IO-K model is the newest of the polarization-independent fiber isolators. It couples high-powered fiber coupling experience with all of OFR's high-power, free-space isolator experience to produce the highest power, fiber coupled isolators available. The fiber laser market is experiencing tremendous advances in power handling requirements, and we are continually working with new fibers and technologies to accommodate these new challenging power levels. The IO-K uses new fiber technologies and thermal management techniques to push the damage thresholds to new levels. See the website for models as they develop.

### Specifications

- Wavelength: 1064nm ± 10nm, 1550nm ± 10nm
- Max Power: 10W (CW)
- Isolation: 30-38dB
- Insertion Loss: 0.8-1.5dB
- ER: ≤0.25dB
- Return Loss: >50dB
- Fiber: HI1060



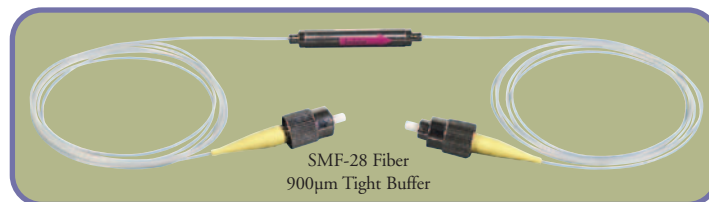
### Isolators – 1064nm

ITEM#	\$	£	€	RMB	DESCRIPTION
IO-K-1064	\$ 2,750.00	£ 1,732.50	€ 2,557.50	¥ 26,262.50	10W Fiber Isolator, SMF, Fiber to Fiber (HI1060)
IO-K-1064-CO	\$ 2,525.00	£ 1,590.80	€ 2,348.30	¥ 24,113.80	10W Fiber Isolator, SMF, Fiber to Free Space, 1mm Collimated
IO-K-1064-ELY	\$ 3,195.00	£ 2,012.90	€ 2,971.40	¥ 30,512.30	10W Fiber Isolator, SMF, Fiber to Free Space, 3mm Collimated

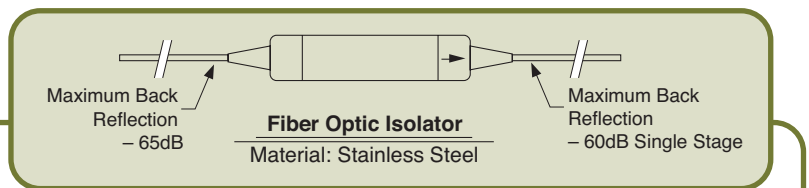
### Isolator – 1550nm

ITEM#	\$	£	€	RMB	DESCRIPTION
IO-K-1550	\$ 1,950.00	£ 1,228.50	€ 1,813.50	¥ 18,622.50	10W Fiber Isolator, SMF, Fiber to Fiber (SMF28e)

## Isolators



These polarization-insensitive, single-stage fiber optic isolators are passive, unidirectional, high-performance components for suppressing optical feedback in laser-based fiber optic systems. They provide very low insertion loss, high isolation, high return loss, and excellent environmental stability and reliability in a compact, rugged package.



### Specifications

- Center Wavelength (4013SA): 1310nm
- Center Wavelength (4015SA): 1550nm
- Typical Peak Isolation: >40dB
- Minimum Isolation:<sup>1</sup> >30dB
- Typical Insertion Loss: 0.4dB
- Maximum Insertion Loss: <0.7dB
- Return Loss (Input/Output): ≥60/50dB
- Polarization Dependent Loss: <0.1dB
- Polarization Mode Dispersion: <0.25ps
- Max Optical Power: 300mW
- Max Tensile: 5N
- Operating Temperature: -20 to +60°C
- Storage Temperature: -40 to +85°C
- Fiber Length: 1m

<sup>1</sup> Over center wavelength ±15nm, at 25°C, and all polarization states

### Isolators – FC/APC Connectors Available by Special Order

ITEM#	\$	£	€	RMB	DESCRIPTION
4013SA	\$ 267.00	£ 168.20	€ 248.30	¥ 2,549.90	1310nm Single Stage Isolator
4015SA	\$ 246.00	£ 155.00	€ 228.80	¥ 2,349.30	1550nm Single Stage Isolator
4013SAFC	\$ 282.00	£ 177.70	€ 262.30	¥ 2,693.10	1310nm Single Stage Isolator, FC/PC Connectors
4015SAFC	\$ 261.00	£ 164.40	€ 242.70	¥ 2,492.60	1550nm Single Stage Isolator, FC/PC Connectors