PASSIVE COMPONENTS

1030/1064nm PM Isolator

Polarization-maintaining isolator for 1030 nm and 1064 nm fiber lasers, with 32 dB isolation.

Key Features

- Polarization-maintaining construction
- Isolation ≥ 32 dB at 1064 nm
- Insertion loss ≤ 0.55 dB across −5 °C to +70 °C
- Matched to ytterbium and Nd:YAG laser wavelengths

Applications

- Ytterbium fiber laser output protection
- Nd:YAG and 1064 nm source isolation
- Fiber amplifier seed protection
- Materials processing and marking systems

Overview

A polarization-maintaining isolator built for the 1030 nm and 1064 nm wavelengths used by ytterbium fiber lasers and Nd:YAG systems. It blocks back reflection while preserving the linear polarization these sources depend on.

Isolation is 30 dB at 1030 nm and 32 dB at 1064 nm, with insertion loss within 0.55 dB across −5 °C to +70 °C and ±15 nm of bandwidth.

Specifications

Optical Performance

PARAMETER	VALUE	UNIT	CONDITIONS
Operating Wavelength	1030 / 1064	nm	Bandwidth ±15 nm
Isolation	≥ 30	dB	1030 nm
Isolation	≥ 32	dB	1064 nm
Insertion Loss	≤ 0.55	dB	−5 °C to +70 °C

Order or request a quote

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