

PASSIVE COMPONENTS

1310/1550nm High-Power Polarization-Independent Isolator

High-power isolator for 1310, 1480 and 1550 nm, with 50 dB isolation in a dual-stage build.



Key Features

- Rated for high optical power
- Isolation ≥ 50 dB dual-stage, ≥ 30 dB single-stage
- Insertion loss ≤ 0.5 dB dual-stage
- Available at 1310, 1480 and 1550 nm
- Polarization independent

Applications

- High-power amplifier output protection
- EDFA and Raman amplifier stages
- Fiber laser output isolation
- High-power test and measurement

Overview

A polarization-independent isolator rated for high optical power, available at 1310, 1480 and 1550 nm with ± 20 nm bandwidth. Dual-stage construction reaches 50 dB of isolation, against 30 dB for the single-stage version.

Insertion loss is 0.5 dB in the dual-stage build across -5 °C to $+50$ °C, which is low for an isolator carrying that power level.

Specifications

Optical Performance

PARAMETER	VALUE	UNIT	CONDITIONS
Operating Wavelength	1310 / 1480 / 1550	nm	Bandwidth ± 20 nm
Isolation	≥ 30	dB	Single-stage
Isolation	≥ 50	dB	Dual-stage
Insertion Loss	≤ 0.5	dB	Dual-stage, -5°C to $+50^{\circ}\text{C}$

Order or request a quote

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Specifications are subject to change without notice and do not constitute a warranty. Confirm all parameters with Lightwit Photonics sales before ordering.