

PASSIVE COMPONENTS

1310nm Polarization-Independent Optical Isolator

1310 nm polarization-independent isolator delivering 60 dB of isolation.



Key Features

- Isolation ≥ 60 dB
- Polarization independent — no launch state requirement
- Insertion loss ≤ 0.8 dB
- 1310 nm center with ± 20 nm bandwidth

Applications

- Laser and amplifier output protection
- Suppressing back reflection in fiber links
- EDFA pump and signal path isolation
- Test benches and instrumentation

Overview

An optical isolator passes light in one direction and blocks it in the other. Placed at a laser or amplifier output, it stops reflected light from re-entering the source, where it would otherwise destabilize the laser or damage it outright.

This device is polarization independent, so it works regardless of the incoming polarization state — the usual requirement in a deployed system where polarization is not controlled. Isolation reaches 60 dB at 1310 nm with insertion loss within 0.8 dB, over a ± 20 nm bandwidth.

Specifications

Optical Performance

PARAMETER	VALUE	UNIT	CONDITIONS
Operating Wavelength	1310	nm	Bandwidth ± 20 nm
Isolation	≥ 60	dB	
Insertion Loss	≤ 0.8	dB	

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.