

PASSIVE COMPONENTS

3W 1550nm Optical Circulator

Optical circulator rated to 3 W at 1550 nm, with 40 dB isolation and 1.0 dB insertion loss.



Key Features

- Rated for 3 W continuous optical power
- Isolation ≥ 40 dB
- Insertion loss ≤ 1.0 dB
- 1550 nm center with ± 30 nm bandwidth

Applications

- High-power fiber amplifier subsystems
- Pulsed and CW fiber laser systems
- LIDAR transmit and receive separation
- High-power sensing interrogators

Overview

A circulator built to handle 3 W of continuous optical power at 1550 nm. Power handling at this level is a construction problem rather than an optical one: the materials and the way the beam is managed inside the package determine whether it survives, not the isolation specification.

Isolation is 40 dB or better with insertion loss within 1.0 dB at 23 °C, across ± 30 nm of bandwidth.

Specifications

Optical Performance

PARAMETER	VALUE	UNIT	CONDITIONS
Operating Wavelength	1550	nm	Bandwidth ± 30 nm
Optical Power	3	W	
Isolation	≥ 40	dB	
Insertion Loss	≤ 1.0	dB	23 °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.