Which manufacturer produces fiber optic circulators



Overview

Fiber Optic Circulator is a passive optical device that allows light to circulate through a fiber optic cable in a specific direction. The leading manufacturers of Fiber optic circulators are listed below.

Key Takeaways

Leading fiber optic circulator manufacturers include Thorlabs, Agiltron, and O/E LAND INC., offering a range of single-mode, polarization-maintaining, and broadband devices.

Key Manufacturers and Offerings

Thorlabs provides a wide range of optical circulators, including single-mode (SM) and polarization-maintaining (PM) devices. Their circulators support center wavelengths of 1064 nm, 1310 nm (O-Band), and 1550 nm (C-Band), with options for FC/PC or FC/APC connectors. Thorlabs also offers broadband circulators for OCT applications and wideband multimode circulators suitable for fluorescence, spectroscopy, and optogenetics, featuring low insertion loss and high isolation for advanced communication systems and fiber sensor applications.

Agiltron specializes in high-performance fiber optic isolators and circulators, offering both narrowband and broadband configurations across spectral ranges from 350 nm to 2100 nm. Their products include polarization-independent and polarization-maintaining versions, with high-power capabilities up to kilowatts. Agiltron also provides custom designs, integrated power monitors, and ultra-broadband options for specialized applications.

© 2026 FD SOLUCIONES OPTICAL SYSTEMS - All rights reserved

O/

E LAN

D INC. manufactures fiber optic circulators designed for bi-directional transmission over a single fiber. Their devices are non-reciprocal, three- or four-port optical components that efficiently separate optical signals moving in opposite directions, making them suitable for advanced communication systems and fiber-optic sensor applications.

Applications

Fiber optic circulators are widely used in: Bi-directional communication systems to enable transmission over a single fiberFiber-optic sensors for precise signal routingOptical coherence tomography (OCT) and spectroscopyAdd-drop multiplexing and chromatic dispersion compensation in DWDM systemsSelection ConsiderationsWhen choosing a manufacturer or product, consider: Wavelength range (O-Band, C-Band, or broadband)Mode type (single-mode, multimode, or polarization-maintaining)Insertion loss and isolationPower handling capabilityConnector type (FC/PC, FC/APC, or unterminated)Custom design availability for specialized applications For a comprehensive list of manufacturers and to request quotes, GoPhotonics provides a directory of over 60 fiber optic circulator suppliers, allowing filtering by location and capabilities.

Article Content

Fiber Optic Circulator Manufacturers

Fiber Optic Circulator is a passive optical device that allows light to circulate through a fiber optic cable in a specific direction. The leading manufacturers of Fiber optic circulators are listed below. Narrow

Fiber Optic Circulators

Thorlabs'' Optical Circulators are non-reciprocating, one-directional, three port devices which are great for bidirectional propagation of light in a single fiber. Our Single Mode (SM) and Polarization

Fiber Optic Circulators

Fiber Optic Circulator is a passive optical device that allows light to circulate through a fiber optic cable in a specific direction. Fiber Optic Circulators from the leading manufacturers are listed below. Use

Coractive | Specialty Optical Fibers

© 2026 FD SOLUCIONES OPTICAL SYSTEMS - All rights reserved

Coractive is a leading manufacturer of innovative optical fibers and fiber lasers since 1998. Discover our complete and integrated solutions.

Single Mode Fiber Optic Circulators

Thorlabs'' Single Mode (SM) Optic Circulators are non-reciprocating, one directional, three-port devices that are used in a wide range of optical setups and for numerous applications. Our SM optical

Fiber Optical Isolators / Circulators

We offer a comprehensive selection of fiber optic isolators and circulators, perfected over 25 years of volume production to cover most application scenarios.

Fiber Optic Circulators: Single-mode, Multimode & PM Circulators

LFIBER manufactures various in-line fiber optical circulators, including high-power optical circulators, single-mode & multimode fiber circulators (polarization-independent & polarization-maintaining fiber

Optical Circulator & Fiber Optic Circulator

Optizone Technology develops and produces Fiber Optical Circulators in various package sizes and various powers. In particular with the PM circulators, Optizone can provide with high isolation and

Our Products

Castor Optics offers specialized low-loss fiber optics couplers, circulators, multiplexers, photonic lanterns, interferometers, and double-clad fiber.

Fiber Optic Circulator / Fiberwe Technologies Co., Ltd.

Fiber Optic Circulator is widely used in communication systems as add-drop multiplexer, bi-directional pump, and chromatic dispersion compensation device. Fiberwe manufactures 3-port, 4-port, 6-port

Fiber Optic Circulators: Enabling Smarter, Directional Light

What is a Fiber Optic Circulator? A fiber optic circulator is a non-reciprocal, multi-port passive device that routes optical signals sequentially between ports in a fixed direction. Unlike

18 Optical Switch Manufacturers in 2026

18 Optical Switch Manufacturers in 2026 This section provides an overview for optical switches as well as their applications and principles. Also, please take a look at the list of 18 optical switch

Optical amplifier

© 2026 FD SOLUCIONES OPTICAL SYSTEMS - All rights reserved

In doped fiber amplifiers and bulk lasers, stimulated emission in the amplifier''s gain medium causes amplification of incoming light. In semiconductor optical amplifiers (SOAs), electron – hole

Optical Circulator & Fiber Optic Circulator

The through port is used for routing signals to another circulator or optical component. Optizone Technology develops and produces Fiber Optical Circulators in various package sizes and various

Fiber Optic Circulators: Powering Advanced Optical Networks with ...

Introduction Fiber optic circulators are pivotal components in modern optical communication systems, enabling unidirectional signal routing with minimal loss. As demand for high

Fiber Optic Circulators: Single-mode, Multimode & PM

The fiber optic circulators are nonreciprocal, passive multiport (3-port or 4-port) devices. The key functionality of a fiber optical circulator is directing light

Custom Fiber Optic Circulator Manufacturer, Supplier

Our Fiber Optic Circulator is built with high-quality materials and cutting-edge technology to ensure superior performance and reliability, This innovative product features low insertion loss, high

What is an Optical Circulator and How Does it Work

Optical circulators are commonly used to enable bidirectional signal transmission over a single fiber, which enhances network efficiency and reduces costs. Key Features of Optical

Related Video Reference

This video was associated with the source search result. Verify technical details against current product documentation and project requirements.

© 2026 FD SOLUCIONES OPTICAL SYSTEMS - All rights reserved

Contact Us

Continue your research online:

Website: https://fdsoluciones.es
Technical inquiry: https://fdsoluciones.es/project-enquiry.html

This document is for preliminary research. Verify specifications against current standards, product documentation and project requirements.

© 2026 FD SOLUCIONES OPTICAL SYSTEMS - All rights reserved