Low-loss optical isolator manufacturers



Overview

Find your optical isolator easily amongst the 15 products from the leading brands (COHERENT, Sensata, ATEK, ...) on DirectIndustry, the industry specialist for your professional purchases.

Key Takeaways

Shin-Etsu, Thorlabs, and Optosun are leading suppliers of low-loss optical isolators suitable for high-performance laser and optical systems. Key SuppliersShin-Etsu MicroSi offers optical isolators with very low transmission loss and excellent thermal lens characteristics, using advanced Faraday-rotator materials. Their isolators are compact, support a wide range of wavelengths, and are suitable for fiber lasers and optical communication systems, including WDM applications.

Thorlabs provides a broad selection of free-space and fiber optical isolators, covering spectral ranges from 365 nm to 4. 55 µm. They offer both polarization-independent and polarization-dependent versions, high-power options, and custom isolator services to meet specific wavelength or performance requirements.

Optosun manufactures high-performance isolators with low insertion loss and high isolation. Their products cover UV to IR wavelengths (390 nm to 2300 nm) and include single-stage, dual-stage, polarization-maintaining, and polarization-insensitive devices. Optosun isolators are widely used for protecting sensitive network equipment and enhancing signal integrity.



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Additional Supplier Resources

The Photonics Buyers' Guide lists over 30 manufacturers and suppliers of optical isolators, including companies like TOPTICA Photonics, which develop isolators for scientific and industrial laser systems.

Direct

Industry also provides a catalog of industrial optical isolators, including polarization-dependent and independent models, with minimal insertion loss and compact designs suitable for O-, C-, or L-Band applications. Considerations When Choosing a SupplierWavelength Range: Ensure the isolator covers the operational wavelength of your laser or optical system. Polarization: Decide between polarization-maintaining or polarization-independent isolators based on your application.

Power Handling: High-power lasers require isolators rated for higher optical power. Insertion Loss: Look for suppliers specifying low insertion loss to minimize signal degradation. Customization: Some suppliers, like Thorlabs, offer custom designs to meet unique system requirements.

These suppliers provide reliable low-loss optical isolators suitable for research, industrial, and communication applications, with options for both standard and custom configurations.

Article Content

Optical isolator

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Optical Isolators / Circulators

We specialize in high-performance isolators beyond the current state-of-the-art, utilizing our patented technologies. Many isolators are in volume production,

Optical Isolators | Suppliers | Photonics Buyers'' Guide | Photonics ...

Explore 32 top manufacturers and suppliers of Optical Isolators in our comprehensive photonics buyers'' guide. An optical isolator is a device used to suppress or redirect backscattered or backreflected

Free Space Isolators | Coherent

Our FSIs are available in a wide range of formats and assemblies, including latching, non-latching, SMT, single-stage, and dual-stage cores, as well as custom assemblies including magnet rings, various

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Optical Isolators

Optosun produce a wide range of high performance Optical Isolators, featuring low insertion loss, with high isolation, for various applications, covering all major industry sectors. Our Isolators are available

Optical Isolators

For customers whose needs are not met by our stock selection, we offer a custom isolator service that can combine the best features across our entire isolator family. The Optical Isolator Selection Guide

Optical Isolators

Compact Single and Dual Stage Optical Isolators and Faraday isolator manufactured by CrystaLaser. They are high backward isolation and high

Optical Isolators

Optical isolators reduce feedback in laser cavities and block unwanted reflections. View our available optical isolators at Edmund Optics.

WL Photonics Inc.

Fiber-pigtailed Isolator Broadband operation Flat-top isolation profile Low insertion loss High power handling SM and PM fiber pigtail available.

Free Space Optical Isolator

Free Space optical Isolators - Single or dual stage, in 1310, 1550 nM or CWDM wavelengths - Optosun Technology

Two Structural Designs of Broadband, Low-Loss, and

Integrated optical isolators are important building blocks for photonic integrated chips. Despite significant advances in isolators integrated on silicon

Low-loss magneto-optical isolator using a tapered multimode ...

Low-loss magneto-optical isolator using a tapered multimode interferometer for TE-mode input on silicon photonic platforms, Wang, Jianping, Okano, Makoto, Shoji, Yuya

Optical Isolator, Optical Isolator Products, Optical Isolator ...

Optical isolators mainly utilize the Faraday effect of magneto-optical crystals. The characteristics of optical isolators are: low forward insertion loss, high reverse isolation, and high return loss.

Free Space Isolator, Faraday Isolator | GLSUN

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GLSUN Free Space Isolators are used in various TOSAs, which require isolation to prevent feedback into the laser. These faraday isolator is available in single and double stage designs. This free space

Optical Isolators / Circulators

High Power Up To 1 kW Low Optical Loss Free-Space or Fiber Broadband 350 nm to 2400 nm Integrated Power Monitor Ultra-Compact Size 1/2 Waveplate Option We provide a wide selection of

LINOS Faraday Isolators | Excelitas

Low Outgassing Isolators, LO Series Our extensive experience and innovations in optical solutions for semiconductor manufacturing have led to the first ever Low Outgassing Faraday Isolators. These

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

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