

Distributor of Low-Temperature Resistant Fiber Optic Passive Components for Field Operations



Overview

Passive fibre optical components – advanced products Our core components include fused optics, WDM filters, collimators and hybrids. Meeting key specificat.

Key Takeaways

Acal BFi, DK Photonics, Seagnol Photonics, HOLIGHT, and LASER COMPONENTS provide high-quality fiber optic passive components designed for wide temperature ranges and field deployment. Recommended Suppliers¹.

Acal B

Fi Acal B

Fi offers a broad range of passive fiber optic components including splitters, couplers, WDM filters, collimators, isolators, circulators, and attenuators. Their products are designed for wide temperature performance, low insertion loss, and high environmental and mechanical stability, making them suitable for aerospace, defense, LiDAR, and field operations. They provide both standard and custom solutions, with modular or connectorized options, and offer engineering support for highly customized modules.

2.



DK Photonics D

K Photonics manufactures PM components, isolators, circulators, combiners, couplers, Faraday rotators, WDMs, and patchcords with wavelength coverage from 400 nm to 2050 nm. Their components are designed for high power handling (300 mW to kilowatts) and wide temperature ranges, suitable for fiber lasers, amplifiers, and instrumentation in field environments. They also provide customized specifications for demanding applications.

3. Seagnol Photonics Seagnol Photonics supplies both active and passive optical components, including fiber couplers, optical isolators, circulators, WDMs, bandpass filters, and attenuators. Their products are RoHS compliant, ISO9001 and ISO14001 certified, and can be customized for specific wavelength, bandwidth, and optical power requirements, making them suitable for harsh field conditions.

4.

HOLIGHT HOLIGH

T provides a complete range of fiber passive components such as adapters, connectors, attenuators, and splitters. Their components are designed for global deployment, ensuring reliability in various environmental conditions, including low-temperature field operations. 5.

LASER COMPONENTS LASER COMPONENT

S offers a wide portfolio of fiber optic passive components for applications in aerospace, defense, sensor technology, and outdoor field operations. They provide both standard and customized solutions, with a focus on high reliability and environmental resilience.

Key Considerations for Field Operations

Temperature Resistance: Ensure components are rated for extreme low and high temperatures. Environmental Stability: Components should withstand humidity, vibration, and mechanical stress. Customization: Many suppliers offer tailored solutions for specific wavelength, power, or connector requirements.

Global Availability: Choose distributors with international shipping and support for field deployment. These suppliers collectively cover a wide range of passive fiber optic components suitable for harsh environments and field operations, providing both standard and custom solutions to meet demanding technical specifications.

Article Content

Passive fibre optical components – advanced products

Our core components include fused optics, WDM filters, collimators and hybrids. Meeting key specification requirements such as optimised bandwidth, low losses,

Specialty Photonics and Custom Fiber Optic Solutions

OFS specialty optical fibers can be customized to meet your desired specifications with state-of-the-art coatings, buffers, and cabling materials resistant to abrasion, chemicals, radiation, biological

G&H Fiber Optics | Components And Modules

Our line of active and passive fiber optic components and modules offer the performance and reliability required for some of the most demanding and

Passive Components | Fiber Optic Sensing Systems | Luna

Luna's fiber-coupled passive components provide various functionalities for changing the properties of light in a system.

Passive Components

Our fiber optic attenuators are available as either fixed or variable, while our hybrid products allow customers to perform multiple functions within a single device, such as optical

Fiber Optics – Buyer's Guide & Supplier List | RP

This buyer's guide for fiber optics provides technical background, comparison of major types, selection criteria, and an overview of suppliers.

Fiber Optics & Accessories | Suppliers | Photonics Buyers' Guide ...

We provide solutions and equipment for optical glass making, fiber drawing, fiber coating, ribbon making, proof testing and fiber optic cable production. Our technology is used to produce telecom preforms,

Find & Compare Optics | Photonics Services

Search for and compare optical components from manufacturers around the world, or for custom jobs we'll match you with an industry expert service provider.

Passive Fiber

Coractive delivers a complete line of passive fibers designed and manufactured to match with our active fiber products and most industry-standard active fibers. Passive fibers are mainly used for fiber lasers

Optical Passive Components Manufacturer | Fiber Optic OEM

OPTIPOW manufactures optical passive components and provides OEM fiber optic solutions for telecom, data center and industrial networks worldwide.

Optical Fiber Sensing

5.21.4 Conclusions This chapter has provided an introduction to the field of optical fiber sensors and their application within composite material monitoring. The basic physical mechanisms behind sensor

Comprehensive Engineering Guide to the 12-SC Fiber ODF Distribution

Abstract What: This technical whitepaper provides an exhaustive architectural and operational analysis of the 12-SC Fiber ODF (Optical Distribution Frame) Distribution Box, a critical

Fiber Optic Cable vs Patch Cord vs Pigtail – Complete Guide

When you build or upgrade a fiber network, the same four words pop up everywhere— fiber optic (bare fiber), pigtail, patch cord, optical cable. They're related, but they are not

The Complete Guide to Fiber Optic Cable Management

Effective fiber optic cable management helps you ensure stable networking and high-speed data transfer. As you work in the telecommunications

Optical Fiber Sensors for High-Temperature Monitoring: A Review

High-temperature measurements above 1000 °C are critical in harsh environments such as aerospace, metallurgy, fossil fuel, and power production. Fiber-optic high-temperature sensors are

FIBER OPTICAL COMMUNICATIONS (R17A0418)

UNIT I general Optical Fiber communication system, advantages of optical fiber communications. Optical fiber wave guides- Introduction, Ray theory t ansmission, Total Interna Fiber materials, Fiber

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

