

Recommended Narrowband Wavelength Division Multiplexer Manufacturers



Overview

Wavelength Division Multiplexing – Buyer's Guide & Suppliers This buyer's guide for wavelength division multiplexing provides technical background, comparison,

Key Takeaways

Top manufacturers for narrowband WDMs include Corning, Agiltron, Pro Optix, O/E Land, CSRayzer, and DK Photonics, offering high-isolation, low-loss, and high-stability multiplexers for DWDM and CWDM applications.

Leading Manufacturers and Their Offerings

1. Corning – Corning provides a wide range of WDM solutions, including arrayed waveguide gratings (AWG) and DWDM filters. Their products are designed for seamless integration into both inside and outside plant networks, with support for custom configurations and deployment services .
2. Agiltron – Agiltron manufactures fiber-coupled WDM devices, including integrated AWG and discrete filter-based multiplexers. They support SWDM, CWDM, and DWDM solutions with channel spacings of 200 GHz (~1.6 nm), 100 GHz (~0.8 nm), and 50 GHz (~0.4 nm), and offer custom configurations for specialized applications .
3. Pro Optix – Specializing in CWDM and DWDM multiplexers, Pro Optix offers high-density solutions such as the Pro MINI and Pro NANO series. Their products support up to 96 wavelengths on a single fiber pair for DWDM and up to 18 wavelengths for CWDM, with options for LC and CS connectivity to maximize density and robustness .

4. O/E Land – Known for DWDM fiber grating filters, O/E Land provides multiplexers with high isolation (>40 dB) and narrow reflection bandwidths down to 0.06 nm (6.25 GHz), suitable for ultra-narrowband applications .

5. CSRayzer – Offers single-mode and polarization-maintaining WDM couplers with low insertion loss, high isolation, and excellent environmental stability. Their components are widely used in EDFAs, fiber lasers, and fiber sensors .

6. DK Photonics – Provides filter-based WDM couplers using advanced micro-optic technology, with polarization-maintaining fibers and high reliability for narrowband applications .

Considerations for Selection

- Channel Spacing: Choose based on DWDM (dense) or CWDM (coarse) requirements. Narrowband applications typically require DWDM with 50 GHz or smaller spacing.
- Insertion Loss and Isolation: High isolation (>40 dB) and low insertion loss are critical for minimizing crosstalk and signal degradation.
- Connectivity Type: LC connectors are standard, while CS connectors offer higher density and robustness.
- Environmental Stability: For outdoor or high-power applications, polarization-maintaining fibers and robust coatings are recommended.
- Custom Configurations: Many manufacturers provide tailored solutions for specific wavelength grids or fiber types.

These manufacturers represent a reliable starting point for sourcing narrowband WDM multiplexers suitable for telecommunications, data center interconnects, and high-capacity optical networks.

Article Content

Wavelength Division Multiplexing – Buyer's Guide & Suppliers

This buyer's guide for wavelength division multiplexing provides technical background, comparison of major types, selection criteria,

Dense Wavelength Division Multiplexers (DWDM) Manufacturers and ...

Manufacturer of standard and custom dense wavelength division (DWDM) fiber optic multiplexers. Available in single

Wavelength Division Multiplexers (WDM) Manufacturers

Discover 198 Wavelength Division Multiplexers (WDM) manufacturers and distributors on GlobalSpec. Find

Top Dense Wave Division Multiplexing Companies 2025

Telecom, enterprise, and government players must now evaluate DWDM strategies through a geopolitical and

Wavelength multiplexer

Find your wavelength multiplexer easily amongst the 21 products from the leading brands (Yangtze Optical Electronic, T&S

Wave Division Multiplexers (WDM) Manufacturers and ...

Develop, manufactures & markets optical transport systems for metro & regional networks that deliver scalable and

Wavelength-Division Multiplexing (WDM)

For optical communication applications, we offer a full range of SWDM, CWDM, and DWDM solutions, supporting channel spacings

Wavelength Division Multiplexing

It details the two main standards: coarse WDM (CWDM), with few channels and wide spacing for applications like metropolitan

Fiber Optic Dense Wavelength Division Multiplexers

Explore 14 top manufacturers and suppliers of Fiber Optic Dense Wavelength Division Multiplexers in our comprehensive photonics

Top Trusted Wavelength Division Multiplexing Manufacturers

Shenzhen Soras Technology Co., Ltd. is a leading manufacturer and exporter of top-quality Wavelength Division Multiplexing

High-Performance Wavelength Division

Through co-optimization of distributed Bragg gratings and dielectric wavelength division multiplexers, we achieve low insertion loss

DWDM Modules | OEM Optical Communication Solutions | Corning

Corning's dense wavelength division multiplexers (DWDMs) are integrated optical modules that combine, or multiplex, and separate,

Fiberdyne Labs, Inc. Wavelength Division Multiplexers (WDMs)

Fiberdyne Labs' Wavelength Division Multiplexers (WDMs) enable end users to channels of light in premium and high isolation

Introduction to Coarse Wavelength Division Multiplexing (CWDM)

Coarse Wavelength Division Multiplexing (CWDM) is a proven, reliable, and cost-effective alternative that can extend the capacity

High-Performance Wavelength Division Multiplexers Enabled by Co ...

Wavelength division multiplexers are fundamental to the functioning and performance of integrated photonic circuits,

A Review of WDM Technology and Applications

The rapid growth in demand for high-capacity telecommunication links, and the speed limitation of single-wavelength

Wavelength-Division Multiplexing

Wavelength-division multiplexing (WDM), increases the information-carrying capacity of a fiber by assigning multiple incoming optical

CWDM Module Coarse Wavelength Division Multiplexing

CWDM Module Coarse Wavelength Division Multiplexing Originally, the term coarse wavelength division multiplexing (CWDM) was

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