

Low-temperature resistant AWG wavelength division multiplexer for rail transit



Overview

It operates at 50GHz or 100GHz channel spacing ITU Grid DWDM wavelengths from 1526nm to 1565nm. The AAWG DWDM can be used to replace the filter-type DWDM Mux DeMux for cases where no power is available. The low cost and high performance make it the ideal solution for metro and. We produce fiber-coupled Wavelength-Division Multiplexing (WDM) devices that combine (Mux) or separate (DeMux) multiple wavelength channels into or from a single optical fiber. Two types are available: integrated arrayed waveguide gratings (AWG), offering low cost, compact size, and precise ITU. HighEasy Coarse wavelength division multiplexer (CWDM Mux/Demux) utilizes thin film coating technology and proprietary design of non-flux metal bonding micro optics packaging. NEL is the pioneer and market leader of Athermal AWG.



Article Content

Nov 25, 2025

US20230224040A1

Common structure types of CWDM devices include arrayed waveguide gratings (AWG), etched diffraction gratings, and Bragg gratings. A CWDM filter based on AWG/etched diffraction grating can...

May 07, 2026

AWG Arrayed Waveguide Grating Dense Wavelength

Model #: AWG-A-44-H-F-1-L-1 Please refer to Data sheet for detailed specifications. If you need a different model number, please feel free to ask a quotation. Low

Nov 30, 2025

Mode and orthogonal frequency division multiplexing using a single AWG ...

Abstract An arrayed waveguide grating (AWG) configuration can simultaneously perform the optical discrete Fourier transform and multiplex and demultiplex (MUX/DeMUX) two optical

Feb 15, 2026

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

Here, we develop a novel design approach that co-optimizes inverse-designed wavelength division multiplexers and distributed Bragg gratings to achieve ultra-low crosstalk without compromising

Jun 30, 2025

Athermal AWG DWDM Mux DeMux | Gigalight Datasheets

All specifications are based 19-inch rack mount with adapters, and guaranteed over wavelength, polarization and temperature; fiber type is G657A1. PMD and chromatic dispersion values are

Mar 04, 2026

(PDF) Mode and Orthogonal Frequency Division

PDF | On Jan 1, 2022, Takahiro Kodama and others published Mode and Orthogonal Frequency Division Multiplexing Using a Single Awg-Based Mux/Demux | Find,

Jul 03, 2025

4ch / 8ch Mini Coarse Wavelength Division Multiplexer

4ch / 8ch Mini Coarse Wavelength Division Multiplexer ACP's Mini Coarse wavelength division multiplexer (MCWDM) utilizes coating technology and proprietary design of non-flux metal bonding

Apr 16, 2026

Athermalized Arrayed-waveguide grating (AWG) wavelength multi ...

NEL's Athermal AWG is a high performance and ultra-compact MUX/DEMUX device without the need for temperature controller. The AWG is based on our patented technology, and offers a highly stable

Jun 27, 2025

Coarse Wavelength Division Multiplexer (1x2)

Coarse Wavelength Division Multiplexer (1x2) ACP's Coarse Wavelength Division Multiplexer (CWDM) utilizes thin film coating technology and proprietary design of non-flux metal bonding micro optics

May 02, 2026

Compact 4-channel AWGs for CWDM and LAN WDM in data

Abstract InP-based 4-channel AWGs for Coarse Wavelength Division Multiplexing (CWDM) with channel spacing of 20 nm and Local Area Network (LAN) WDM with channel spacing

Apr 23, 2026

Understanding WDM(Wavelength Division Multiplexing) Technologies

TFF(Thin-film filter) and AWG(Arrayed Waveguide Grating) are two main WDM technologies. How do they work? What's the principle?

Nov 12, 2025

LWDM — Enablence

LWDM MUX Enablence LAN Wavelength Division Multiplexing (LWDM) optical multiplexer (MUX) is available using our proprietary Vortex design. The MUXes

Feb 13, 2026

17CH 150GHZ Athermal AWG WDM Wavelength

High quality 17CH 150GHZ Athermal AWG WDM Wavelength Division Multiplexer High Uniformity from China, China's leading product market athermal awg

Jun 02, 2026

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

Abstract Wavelength division multiplexers are fundamental to the functioning and performance of integrated photonic circuits, with applications ranging from optical interconnects to sensing and

Aug 04, 2025

Design and fabrication optimization of a 4-channel polarization ...

In this work, a 4-channel polarization-independent arrayed waveguide grating (AWG) was designed for CWDM systems, which was realized by ridge waveguides on the SOI platform with 3

Feb 07, 2026

Design of 4-channel AWG Multiplexer/demultiplexer for CWDM system ...

Based on the theory of light transmission, the relationships between structure parameters and optical performance of AWG chip are analyzed. Four-channel AWG MUX/DEMUX chips for

Aug 18, 2025

Athermalized Arrayed-waveguide grating (AWG) wavelength multi ...

The arrayed-waveguide grating (AWG) wavelength multi / demultiplexer combines and splits optical signals of different wavelengths for use in WDM system. NEL is the pioneer and market leader of

May 06, 2026

AWG/WDM/CWDM/DWDM - HighEasy Technology Inc.

It provides low insertion loss, high channel isolation, wide pass band, low temperature sensitivity and epoxy free optical path. Our CWDM Mux/Demux

Sep 20, 2025

Low-Loss and Laser Damage Resistant O-Band AWG Multiplexer

The next generation high-efficiency and high-power optical network requires high performance wavelength division multiplexer, which can withstand high power in p

Jul 03, 2025

16-channel dual-tuning wavelength division

Although the wavelength tunable AWG and optical power tuning AWG have been reported, the dual-tuning AWGs with both wavelength tuning and optical power

Nov 24, 2025

US20230224040A1

It is well-known that the wavelength division multiplexing (WDM) technology is an effective means to increase the capacity of optical communication. In addition, the WDM technology is combined with

Jun 02, 2026

Design and fabrication optimization of a 4-channel polarization ...

A wavelength division (de)multiplexing (WDM) filter with ultra-low channel crosstalk (XT) and high tolerance was proposed for a 1×4 O-band coarse-WDM (CWDM) system on a silicon-on

Aug 22, 2025

Waveguide Based Wavelength Division Multiplexer

Waveguide Based Wavelength Division Multiplexer AWG Modules 200/100/50GHz
SKU: AAWG

Dec 13, 2025

Ultra-Low-Crosstalk Silicon Arrayed-Waveguide Grating

Abstract A silicon arrayed-waveguide grating (AWG) with 1.6-nm channel spacing is proposed and realized with high performances for dense

Sep 18, 2025

Wavelength Division Multiplexers (WDM) by AFL

Wavelength Division Multiplexers (WDM) by AFL include CWDM LGX, Thin film filter CWDM, single channel OADM, DWDM LGX, Optical FTTx channel and RFoG wavelength division modules.

Contact Us

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