

Comparison of High Temperature Resistance and Lifespan of Columbia AWG Wavelength Division Multiplexers

To ensure the normal operation of AWG chips in products such as Wavelength Division Multiplexers (WDM) and to reduce the temperature dependence of AWGs, thus enhancing the ...

Abstract: A 96-channel (50 GHz-spacing) athermal AWG has been developed. It has a wide operating range due to reduced temperature dependence than conventional AWG.

Among WDM solutions, Thin-Film Filter (TFF) and Arrayed Waveguide Grating (AWG) are two leading approaches, each with unique advantages in cost, capacity, and latency.

To confirm the enhanced performance, we carry out a reliability test of the 17-channel (150 GHz-spacing) AAWG module and the results revealed a stable operation with only a ± 0.04 nm ...

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 ...

In this section, we carry on the theoretical simulation and the optimum design of an athermal AWG with silica/polymer hybrid materials. Figure 1a shows the scheme of an AWG device which consists of two ...

In this work, we show the improved reliability of an AAWG module with an elaborated fixture design in which the input slab waveguide moves in parallel with the slab. Moreover, our ...

Arrayed waveguide gratings (AWG) are commonly used as optical (de)multiplexers in wavelength division multiplexed (WDM) systems. These devices are capable of multiplexing many wavelengths ...

Abstract: This paper describes recent progress in relation to the key requirements for athermal arrayed waveguide grating (AWG) multiplexers with resin-filled grooves, namely a wide passband and low ...

We have investigated a thermal AWG devices design signature for ultrahigh thermal stability and ultralow thermal sensitivity. The refractive index dependence of the various plastic ...

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