



8 x 200 GHz ATHERMAL AWG MULTIPLEXER



The Gemfire Athermal AWG (Arrayed Waveguide Grating) is a high-performance DWDM mux/demux device operating on 200GHz channel spacing without the need for temperature stabilization. The PhotonIC™ planar-processed silica-on-silicon chips comprise arrayed channel waveguides to separate or combine multiple wavelengths. Athermal AWGs allow multiplexing and demultiplexing of DWDM signals over a wide operating temperature range, without the need for heater drive and monitoring electronics. These AWGs offer low insertion loss, excellent channel isolation, ease of fiber handling, and long-term reliability in a compact package. Gemfire's athermalization technology simplifies deployment of AWG multiplexers and demultiplexers by DWDM network providers.

8 x 200GHz Mux/Demux

Fully Passive Module

Wide Operating Temperature Range

Low Insertion Loss & PDL

Low Crosstalk

High Uniformity

No Electronics Required

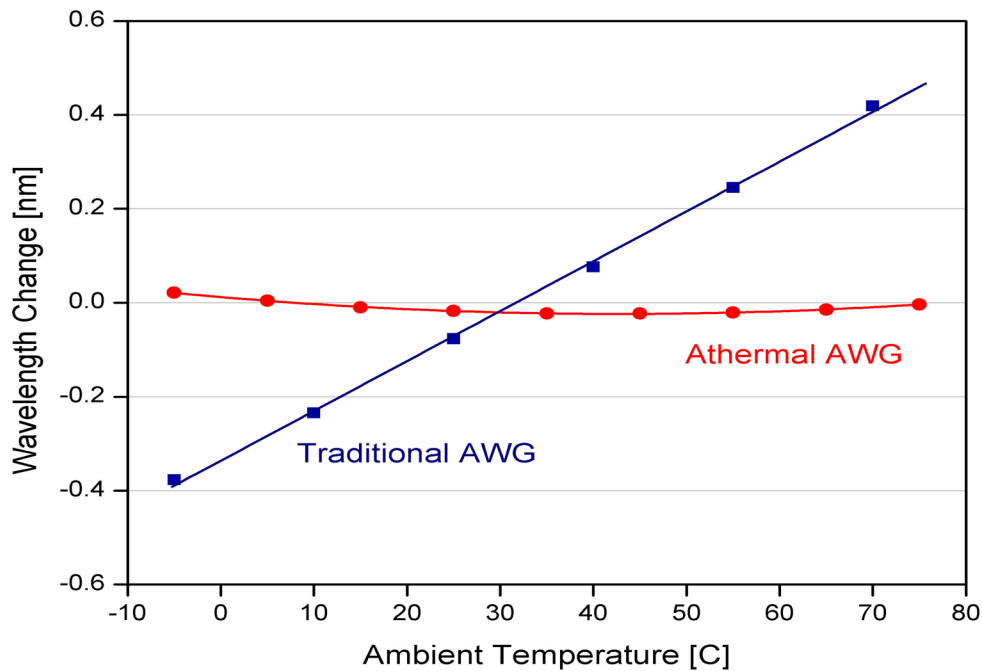
Compact Footprint

Versatile Alternative to TFF Mux



Number of channels	8
Channel spacing	200GHz
Clear window passband	62.5GHz
Insertion loss (at ITU grid)	3.0dB
Insertion loss uniformity	1.0dB
-1dB passband	500pm
Polarization dependent loss (at ITU grid)	0.2dB
Polarization dependent loss (across clear window)	0.5dB
Chromatic dispersion	<10ps/nm
Differential group delay	0.5ps
Adjacent channel crosstalk	-25dB
Optical return loss	-40dB
Maximum center wavelength deviation over temperature	±50pm
Dimensions (L x W x H)	100 x 50 x 10mm
Operating temperature range	-5°C to 70°C

Available with multiple connector types and other package designs.



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