

ARRAYED WAVEGUIDE GRATINGS

PM 100GHz 40-Channel Athermal AWG

Polarization-maintaining version of the 40-channel 100 GHz athermal AWG, for systems that must preserve launch polarization.



Key Features

- Polarization-maintaining fiber and alignment end to end
- 40 channels on a 100 GHz grid
- Athermal package with no power requirement
- Insertion loss ≤ 6 dB worst case across the ITU passband
- 32-channel version available

Applications

- Coherent detection front ends
- Interferometric fiber sensing arrays
- Polarization-sensitive test and measurement
- DWDM multiplexing where launch polarization must be preserved

Overview

This is the 40-channel, 100 GHz athermal AWG built with polarization-maintaining fiber and PM alignment throughout. It multiplexes and demultiplexes a C-band DWDM grid while preserving the polarization state of every channel.

PM construction matters wherever the downstream stage is polarization sensitive — coherent receivers, interferometric sensors and most modulator front ends. Insertion loss and crosstalk track the standard device.

Specifications

Optical Performance

PARAMETER	VALUE	UNIT	CONDITIONS
Number of Channels	40		32 channel also available
Channel Spacing	100	GHz	
Insertion Loss	≤ 6	dB	ITU passband, worst case
Fiber Type	Polarization maintaining		

Order or request a quote

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