

ARRAYED WAVEGUIDE GRATINGS

75GHz 64-Channel C-Band Athermal AWG

64-channel C-band athermal AWG on a 75 GHz grid, balancing channel count against passband width.



Key Features

- 75 GHz spacing — more channels than a 100 GHz plan, wider passband than 50 GHz
- Athermal package with no power requirement
- Insertion loss ≤ 6.0 dB
- Non-adjacent crosstalk ≥ 29 dB
- 32, 40 and 80 channel versions available

Applications

- DWDM multiplexing and demultiplexing in metro and long-haul transport
- ROADM and optical add/drop line cards
- High-density data center interconnect
- Channel monitoring and optical test equipment

Overview

Arrayed waveguide gratings separate a multiplexed fiber into its individual wavelengths, and combine them again in the other direction. This device handles 64 channels on 75 GHz spacing across the C band.

The design is athermal: channel center wavelengths are held over the operating temperature range by passive compensation rather than a heater and control loop. That removes a power rail, a failure mode and a thermal settling time from the line card.

Channel count is configurable at order time, and the die is packaged to your connector, pigtail length and housing requirements.

Specifications

Optical Performance

PARAMETER	VALUE	UNIT	CONDITIONS
Number of Channels	64		32, 40 and 80 channel also available
Channel Spacing	75	GHz	
Insertion Loss	≤ 6.0	dB	
Bandwidth, 0.5 dB	43	GHz	
Bandwidth, 1 dB	51	GHz	
Bandwidth, 3 dB	71	GHz	
Non-Adjacent Crosstalk	≥ 29	dB	

Order or request a quote

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