

ARRAYED WAVEGUIDE GRATINGS

100GHz 14-Channel L-Band Flat-Top AWG

14-channel flat-top AWG on a 100 GHz grid, operating in the L band for capacity beyond the C band.



Key Features

- L-band operation for capacity beyond a filled C band
- Flat-top passband shape
- 14 channels on a 100 GHz grid
- Insertion loss ≤ 6.5 dB at center wavelength
- Non-adjacent isolation 33 dB to 35 dB

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 works in the L band, where systems go once the C band is full.

The passbands are flat-topped, so a channel stays within its loss budget even as the transmitter wavelength drifts across the passband. Specified performance holds across the full operating temperature range.

Specifications

Optical Performance

PARAMETER	VALUE	UNIT	CONDITIONS
Number of Channels	14		
Channel Spacing	100	GHz	
Insertion Loss	≤ 6.5	dB	Center wavelength
Insertion Loss	≤ 6.8	dB	Full bandwidth
Bandwidth, 1 dB	50	GHz	
Bandwidth, 3 dB	75	GHz	
Bandwidth, 20 dB	150	GHz	
Adjacent Isolation	18 – 25	dB	
Non-Adjacent Isolation	33 – 35	dB	

Order or request a quote

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