

A thermal array waveguide grating type wavelength division multiplexer (AWG)

This document proposes the specification of thermal array waveguide grating type wavelength division multiplexer

Specifications

Parameters	Unit	Performance Specifications	
Channel Spacing	GHz	100	
Channel Number		40	48
Insertion Loss	dB	≤ 5.5	≤ 6
Wavelength Accuracy	nm	± 0.04	± 0.05
1dB Passband	nm	≤ 0.4	
3dB Passband	nm	≤ 0.6	
20Db Passband	nm	≤ 1.2	
Ripple	dB	0.5	
Uniformity	dB	1.0	
Return Loss	dB	≥ 40	
Adjacent Channel Isolation	dB	≥ 25	
Non-Adjacent Channel Isolation	dB	≥ 30	
Total Isolation	dB	≥ 22	
PDL	dB	≤ 0.5	
PMD	PS	≤ 0.5	
Voltage	V	5.0 \pm 0.5	
Heater Power Consumption	W	10	
Stable Consumption	W	6	
Settling Time (From room temperature to set point)	min	≤ 7	
Operating Temperature	°C	-5~65	
Storage Temperature	°C	-40~85	
Package Dimension	mm	135x65x15	