DWDM Athermal AWG

Agilecom's Dense Wavelength Division Multiplexer Athermal Arrayed Waveguide Grating Modules are part of a series of high performance based on silica-on-silicon planar technology and a unique athermal packaging design requiring no electrical power, software or temperature control for a completely passive DWDM solution. This product range offers a combination of very low loss and high channel isolation along with long term reliability. Each module can perform Mux and Demux functions. C band, L band and C&L cycle are all available with Gaussian and Flat-top spectral response. Customized frequency grids, fiber types and various options of connectors are also available.



Key Features

- High Stability and Reliability
- Low Insertion Loss
- Low Polarization Dependent Loss
- High Channel Isolation
- Muti-channel Number

Applications

- WDM Transmission
- WDM based ADM
- Metro and Long Haul
- Networks
- Wavelength Selective Routing
- Optical Signal Processing

Specifications

Parameters	AAWG		Unit
Chip Type	Gaussian	Flat-Top	
ITU Passband	±0.1		nm
Channel Spacing	100		GHz
Operating Wavelength	C15~C62		nm
Number of Channels	16,32,48 or Other		
Wavelength Accuracy	≤±0.05		nm
Insertion Loss	≤4.5	≤6	dB
-1dB Passband	≥0.24	≥0.4	nm
-3dB Passband	≥0.43	≥0.6	nm
Adjacent Channel Isolation	≥25		dB
Non-adjacent Channel Isolation	≥30		dB
Total Isolation	≥22		dB

Parameters	AAWG		Unit
Chip Type	Gaussian	Flat-Top	
Passband Ripple	≤1.0		dB
Polarization Dependent Loss	≤0.5		dB
Uniformity	≤1.5	≤1	dB
Directivity	≥50		dB
Return Loss	≥40		dB
Polarization Mode Dispersion	≤0.5		ps
Power Handling	≤300		mW
Fiber Type	G657A/PM		
Operating Temperature	-5 ~ +65		dB
Storage Temperature	-40 ~ +85		dB

Note: Specifications include connectors.

Order Information

AAWG — □ □□ □ □□□ □

Code	Band
C	C-band
X	Customized

Code	Channel
16	16
32	32
40	40
48	48
80	80
96	96
XX	Customized

Code	Channel Spacing(GHz)
1	100
2	200
5	50
X	Customized

Code	Start Wavelength(nm)
H62	H62
C62	C62
H61	H61
C61	C61
· · ·	ITU
XXX	Customized

Code	Chip Type
G	Gaussian
B	Wide Gaussian
F	Flattop

Code	Package
M	Module
A	Chassis
X	Customized

Code	Fiber Length(m)
1	0.5
2	1
3	1.5
4	2
5	2.5
6	3
X	Customized

Code	Connector
0	None
1	SC/UPC
2	SC/APC
3	FC/UPC
4	FC/APC
5	LC/UPC
6	LC/APC
X	Customized