

DWDM Athermal Arrayed Waveguide Grating Module

Agilecom's Dense Wavelength Division Mux/Demultiplexer Athermal Arrayed Waveguide Grating Modules are part of a series of high performance products 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. Both C- and L-band devices are available with Flat top spectral response. Custom frequency grids, fiber types and connectorisation options are also available.

Key Features

- High stability and reliability
- Low Insertion Loss
- Low PDL
- High Channel Isolation
- Multi-channel number

Applications

- WDM transmission
- WDM based ADM
- Metro and long haul net works
- Wavelength selective routing
- Optical signal processing

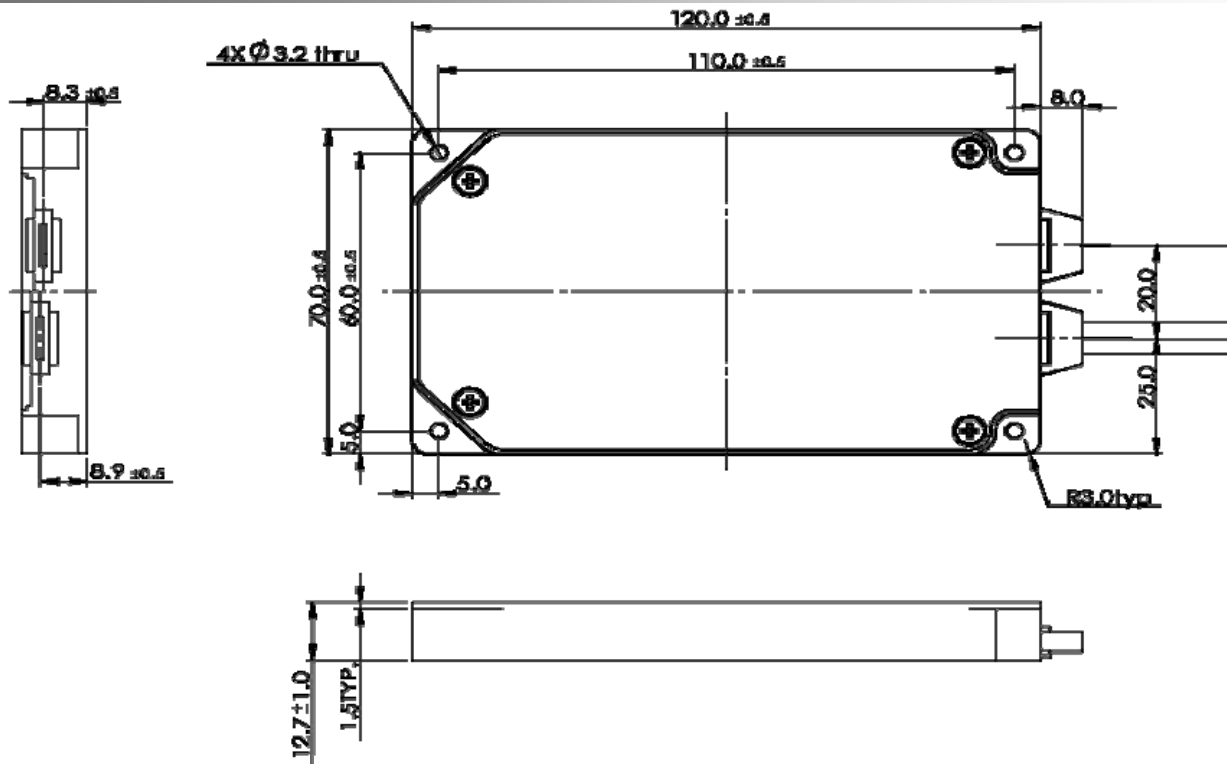


AAWG Specification

Parameter		Unit	Specifications	
			Gaussian	Flat-Top
ITU Band		GHz	±12.5	
Channel spacing		GHz	100	
Number of channels			16,32,40,48 or customize	
Wavelength accuracy		Max	nm	
			0.05	
Insertion loss		Max	dB	
			4.5	
-1dB passband		Min	nm	
			0.2	
-3dB passband		Min	nm	
			0.4	
Isolation	Adjacent Channel	Min	dB	
	Non-adjacent Channel	Min	dB	
			25	
			30	
Total Crosstalk		Min	dB	
			20	
			23	
Ripple in Passband		Max	dB	
			0.75	
Polarization Dependent Loss		Max	dB	
			0.5	
Uniformity		Max	dB	
			1.5	
Directivity		Min	dB	
			50	
Return Loss		Min	dB	
			45	
Polarization Mode Dispersion		Max	ps	
			0.5	
Power Handling		Max	mW	
			300	
Fiber Type			Corning SMF-28 / SMF-28e or customize	
Operating Temperature		°C	-5~70	
Storage Temperature		°C	-40~85	
Package Dimension		mm	(L)120×(W)70×(H)12.7	

Notes: Specifications without fiber connectors

AAWG Dimensions Diagram



Ordering Information

For more information on these or other products and their availability, please contact our sales department at 408-943-0815 in North America and 86-760-86781889 in China or via e-mail at info@agilecom.net.

AAWG		Code		Code		Code		Code		Code			
Code	Band	Code	Channel Number	Code	Spacing	Code	Channel Number	Code	Filter shape	Code	Fiber Length	Code	Connector
C	C-Band	16	16-ch	1	100GHz	C60	C60	G	Gaussian	1	0.5m	0	None
L	L-Band	32	32-ch	2	200GHz	H59	H59	B	Broad Gaussian	2	1.0m	1	SC/UPC
D	C&L	40	40-ch	5	50GHz	C59	C59	F	Flat -Top	3	1.5m	2	SC/APC
X	Customize	48	48-ch	X	Customize	H58	H58			4	2.0m	3	FC/UPC
		X	Customize			XXX	ITU Channel			5	2.5m	4	FC/APC
										6	3.0m	5	LC/UPC
										A	1.25m	6	LC/APC
										B	1.75m	7	ST/UPC
										C	2.25m	8	MU
										X	Customize	X	Customize

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