

## Dense Wavelength Division Multiplexing Device

Agilecom's DWDM devices utilize thin-film filter technology. Individual components are available on ITU channel spacing of 200 and 100 GHz. These devices exceed the requirements of Telcordia GR-1221. They demonstrate low loss, temperature insensitivity, and reliable performance in any system application.

### Key Features

- Low Insertion Loss
- High Channel Isolation
- Epoxy-Free in Optical Path
- Excellent thermal stability

### Compliance

- Telcordia GR1209
- Telcordia GR1221

### Applications

- DWDM System
- Access networks
- Long haul networks
- Metro networks
- CATV System

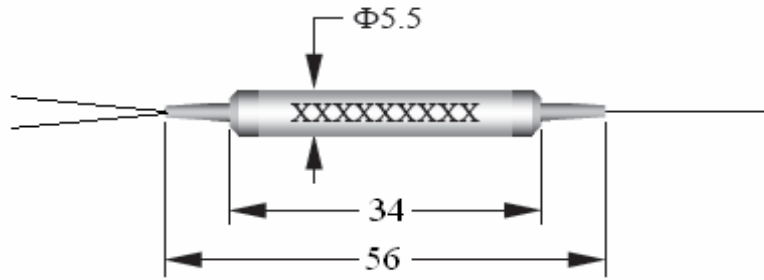


### DWDM Specifications

Parameter		Unit	Specifications	
Channel Central Wavelength		nm	C/L band, ITU-T grid	
Channel Spacing		nm	0.8 (100GHz)	1.6 (200GHz)
Channel Passband		nm	ITU±0.11	ITU±0.25
Transmission Insertion Loss	Max	dB	1.2 (Typ 0.8)	1.0 (Typ 0.7)
Reflection Insertion Loss	Max	dB	0.6 (Typ 0.4)	0.6 (Typ 0.4)
Passband Ripple	Max	dB	0.5	0.5
Transmission Isolation	Min	dB	28	30
Reflection Isolation	Min	dB	12	12
Return Loss	Min	dB	45	45
Directivity	Min	dB	50	50
Polarization Dependent Loss	Max	dB	0.15	0.1
Polarization Mode Dispersion	Max	ps	0.1	0.1
Insertion Loss Temperature Sensitivity	Max	dB/°C	0.005	0.005
Power Handling	Max	mW	500	
Operating Temperature		°C	0~70	
Storage Temperature		°C	-40~85	
Package Dimension		mm	Φ5.5×L34	

Notes: Specifications without fiber connectors

## Dimensions Diagram



DWDM Device

## 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](mailto:info@agilecom.net).

**Sample:** DWDM-2C601020-01

Code	Type	Code	Wavelength	Code	Package	Code	Pigtail	Code	Fiber Length	Code	Connector
1	100G	C60	C60	1	Φ5.5×L34 mm	0	250μm Bare Fiber	1	0.5m	0	None
2	200G	H59	H59	6	10×20×90mm	1	0.9 mm Loose Tube	2	1.0m	1	SC/UPC
5	50G	C59	C59	X	Customize	2	2.0 mm Loose Tube	3	1.5m	2	SC/APC
X	Customize	.	.			3	3.0 mm LooseTube	4	2.0m	3	FC/UPC
		.	.			X	Customize	5	2.5m	4	FC/APC
		XXX	ITU channel					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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## Dense Wavelength Division Multiplexing Module

Agilecom's DWDM module is compact and has the properties of low insertion loss, low crosstalk, and wide pass-band with high isolation, which enables users to establish a low cost bi-directional optical communication system.

### Key Features

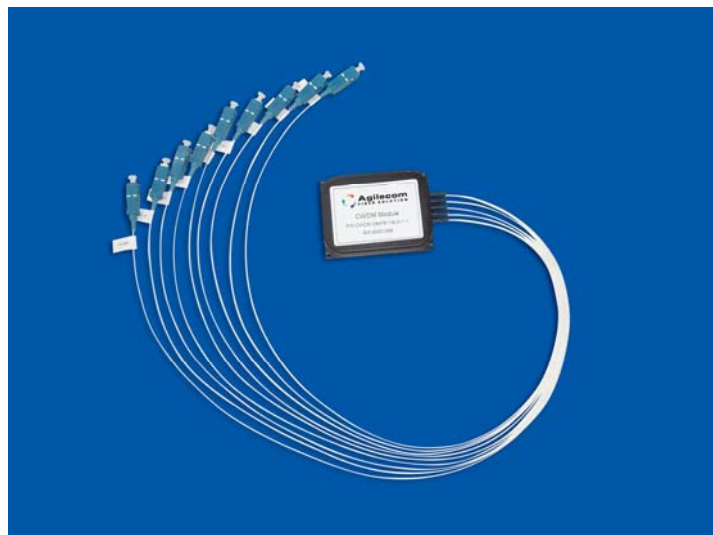
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### DWDM Specifications

Parameter		Unit	Specifications	
Channels Number		Ch	4	8
Channel Central Wavelength		nm	C/L band, ITU-T grid	
Channel Spacing		GHz	200	
Channel Passband		Min	+/-0.25	
Insertion Loss		Max	1.8	3.0
Isolation	Adjacent Channel	Min	25	
	Non-adjacent Channel	Min	35	
Ripple in Passband		Max	0.5	
Polarization Dependent Loss		Max	0.2	
Directivity		Min	50	
Return Loss		Min	50	
Polarization Mode Dispersion		Max	0.1	
Power Handling		Max	500	
Fiber Type			Corning SMF-28 / SMF-28e	
Operating Temperature		°C	0~70	
Storage Temperature		°C	-40~85	
Package Dimension		mm	(L)100×(W)80×(H)10	

Notes: Specifications without fiber connectors

