

Coarse Wavelength Division Multiplexing Device

Agilecom's CWDM devices utilize thin-film filter technology and are available in various wavelength combinations based on the entire wavelength spectrum (1270nm~1610nm in 20nm increments) defined by the ITU G.694.2 CWDM standard.

Key Features

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

Applications

- CWDM/DWDM System
- CATV System

Compliance

- Telcordia GR1209
- Telcordia GR1221

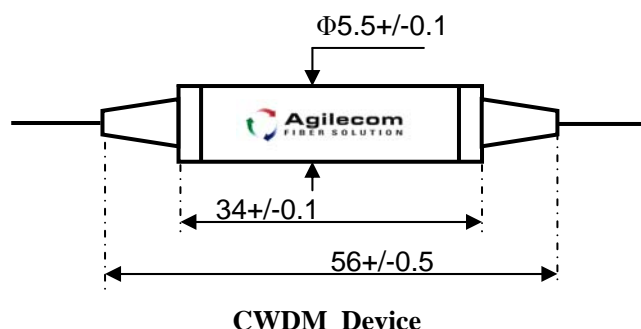


CWDM Specifications

Parameter		Unit	Specifications	
			Mux (Add)	Demux (Drop)
Central Wavelength		nm	1470,1490...1610 or 1471,1491...1611	
Channel Spacing		nm	20	
Channel Passband		Min	+/-6.5	
Insertion Loss	Adjacent Channel	Max	0.6	
	Non-adjacent Channel	Max	0.4	
Isolation	Adjacent Channel	Min	30	30
	Non-adjacent Channel	Min	15	15
Ripple in Passband		Max	0.3	
Polarization Dependent Loss		Max	0.1	
Directivity		Min	55	
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	Φ5.5×L34	

Notes: Specifications without fiber connectors

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.

Sample: CWDM-0471020-01

Code	Type	Code	Wavelength	Code	Package	Code	Pigtail	Code	Fiber Length	Code	Connector
0	ITU	27	1270(1)nm	1	Φ5.5×L34 mm	0	250μm Bare Fiber	1	0.5m	0	None
1	ITU+1	.	.	6	10×20×90mm	1	0.9 mm Loose Tube	2	1.0m	1	SC/UPC
		.	.	X	Customize	2	2.0 mm Loose Tube	3	1.5m	2	SC/APC
		47	1470(1)nm			3	3.0 mm LooseTube	4	2.0m	3	FC/UPC
		49	1490(1)nm			X	Customize	5	2.5m	4	FC/APC
		.	.					6	3.0m	5	LC/UPC
		.	.					A	1.25m	6	LC/APC
		.	.					B	1.75m	7	ST/UPC
		59	1590(1)nm					C	2.25m	8	MU
		61	1610(1)nm					X	Customize	X	Customize
		xx	Customize								

All statements, technical information and recommendations related to the products herein are based upon information believed to be reliable or accurate. Agilecom reserves the right to change at any time without notice the design, specifications, function, fit or form of its products described herein, including withdrawal at any time of a product offered for sale herein.

All rights reserved@2009 Agilecom Photonic Solutions, Inc.
Rev. 005 07/2009

Coarse Wavelength Division Multiplexing Module

Agilecom's CWDM 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

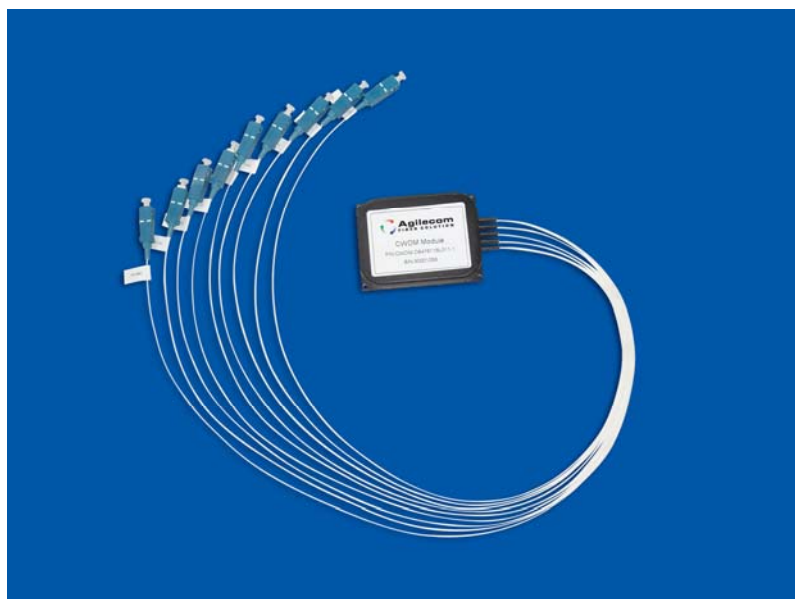
- Low Insertion Loss
- High Channel Isolation
- Epoxy-Free in Optical Path
- 2, 8 Channels Configuration

Applications

- CWDM/DWDM System
- CATV System

Compliance

- Telcordia GR1209
- Telcordia GR1221

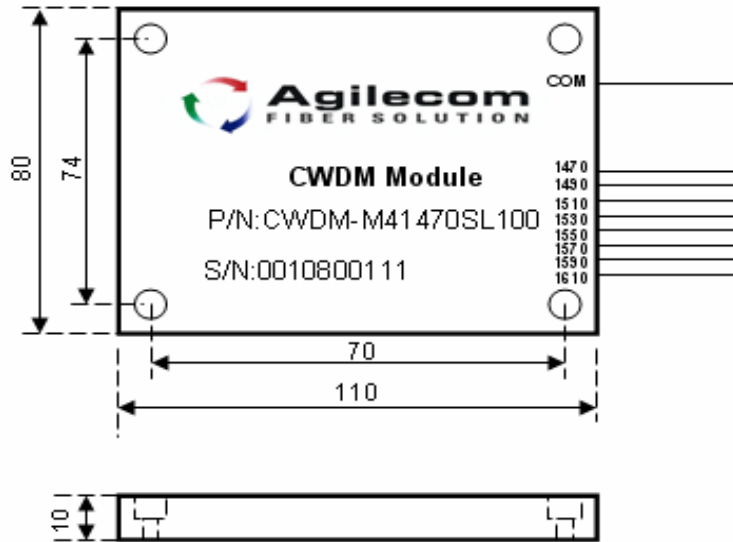


Specifications

Parameter		Unit	Specifications	
Channels Number		Ch	4	8
Central Wavelength		nm	1470,1490...1610 or 1471,1491...1611	
Channel Spacing		nm	20	
Channel Passband		Min	+/-6.5	
Insertion Loss		Max	1.5	2.7
Isolation	Adjacent Channel	Min	30	
	Non-adjacent Channel	Min	40	
Ripple in Passband		Max	0.5	
Polarization Dependent Loss		Max	0.15	
Directivity		Min	55	
Return Loss		Min	50	
Polarization Mode Dispersion		Max	0.1	
Power Handling		Max	500	
Fiber Type			Corning SMF-28 / SMF-28e	
Operating Temperature		°C	-10~70	
Storage Temperature		°C	-40~85	
Package Dimension		mm	(L)100×(W)80×(H)10 (L)125×(W)96×(H)15	

Notes: Specifications without fiber connectors

Dimensions Diagram



8-Channels CWDM Module

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.

Sample: CWDM-M4147023311-01

Code	Type	Code	Start Wavelength	Code	Package	Code	Pigtail	Code	Fiber Length	Code	Connector
M	Mux	270	1270nm	7	10×80×100mm	1	0.9mm Loose Tube	1	0.5m	0	None
D	Demux	.	.	8	18×115×141mm	2	2.0mm Loose Tube	2	1.0m	1	SC/UPC
		.	.	9	18×80×120mm	3	3.0mm Loose Tube	3	1.5m	2	SC/APC
		.	.	A	19 inch Rack	4	0.9mm Tight Tube	4	2.0m	3	FC/UPC
2	2	470	1470nm	B	LGX Box	5	2.0mm Tight Tube	5	2.5m	4	FC/APC
4	4	490	1490nm	X	Customize	6	3.0mm Tight Tube	6	3.0m	5	LC/UPC
6	6	.	.			X	Customize	A	1.25m	6	LC/APC
8	8	.	.					B	1.75m	7	ST/UPC
		591	1591nm					C	2.25m	8	MU
		611	1611nm					X	Customize	X	Customize
		XXX	Customize								

All statements, technical information and recommendations related to the products herein are based upon information believed to be reliable or accurate. Agilecom reserves the right to change at any time without notice the design, specifications, function, fit or form of its products described herein, including withdrawal at any time of a product offered for sale herein.

All rights reserved@2009 Agilecom Photonic Solutions, Inc.
Rev. 005 07/2009