

Coarse Wavelength Division Multiplexer (CWDM) Add/Drop Filter



Key Features

- Low insertion loss
- Low polarization dependent loss
- Extended operating temperature range suitable for uncontrolled environment
- Exceptional reliability and environmental stability
- Excellent temperature stability

Applications

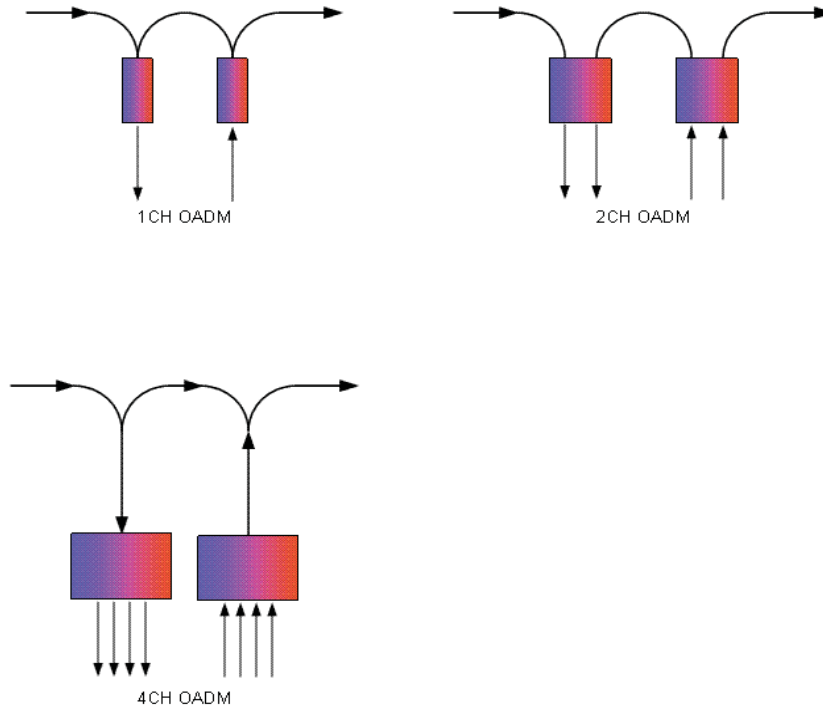
- Metro optical networks
- Enterprise networks

The JDSU CWDM add/drop modules, based on thin-film filter (TFF) technology, provide extremely high performance. With low insertion loss, low polarization sensitivity, and high temperature stability, these modules are well suited to CWDM network applications. The modules add and drop 1, 2, or 4 CWDM channels from network traffic, bypassing the other channels.

These fixed add/drop modules offer low-cost wavelength management solutions. In addition, they are easily customizable, and can be configured based on customer-specific channel plan, packaging type, and connector type.

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Functional Diagram



Specifications

Parameter		1 Ch	2 Ch	4 Ch
Operating wavelength range ¹	Minimum		1460 – 1620 nm	
Passband width	Minimum		$\lambda_c \pm 6.5$ nm	
Add/Drop insertion loss ²	Maximum	1.2 dB	1.5 dB	2.0 dB
Express insertion loss ²	Maximum	1.5 dB	2.2 dB	3.0 dB
Passband ripple	Maximum		0.35 dB	
Add/drop isolation				
Adjacent channel	Minimum		30 dB	
Non-adjacent channel	Minimum		50 dB	
Express isolation	Minimum		30 dB	
Polarization dependent loss	Maximum		0.2 dB	
Polarization mode dispersion	Maximum		0.2 ps	
Return loss	Minimum		45 dB	
Directivity	Minimum		50 dB	
Optical power	Maximum		500 mW	
Operating temperature range			-40 – 85°C	
Storage temperature range			-40 – 85°C	
Operating humidity			5 – 85%	

1. 1260 – 1620 nm is also available upon request, please contact JDSU for details.

2. Including connectors' loss.

Ordering Information

For more information on this or other products and their availability, please contact your local JDSU account manager or JDSU directly at 1-800-498-JDSU (5378) in North America and +800-5378-JDSU worldwide, or via e-mail at customer.service@jdsu.com.

Sample: WDM-CAD040001

WDM-CAD0

Code	Number of Channels
1	1
2	2
4	4



Code	Channel
00	1271 nm
01	1291 nm
02	1311 nm
03	1331 nm
04	1351 nm
05	1371 nm
06	1391 nm
07	1411 nm
08	1431 nm
09	1451 nm
10	1471 nm
11	1491 nm
12	1511 nm
13	1531 nm
14	1551 nm
15	1571 nm
16	1591 nm
17	1611 nm



Code	Packaging
0	LGX ¹
1	1U 19-inch rack ¹
2	1U 23-inch rack ¹



Code	Connector Type
1	SC/UPC
2	SC/APC
3	Duplex LC/UPC
4	Duplex LC/APC
5	LC/UPC
6	LC/APC

1. Detailed package drawings are available upon request.