

CWDM Mux/Demux Module

1. Description

Opfuture's Coarse Wavelength Division Multiplexers (CWDMs) demonstrate low loss and reliable performance. These devices show broad passband and high isolation, making them ideal for operation with inexpensive, uncooled lasers, thereby enabling high capacity, low cost product for the CATV and metro/access markets.

Opfuture provides whole series of Module products that are tailored for specific applications. All products meet GR-1209-CORE and GR-1221-CORE requirements.

2. Features

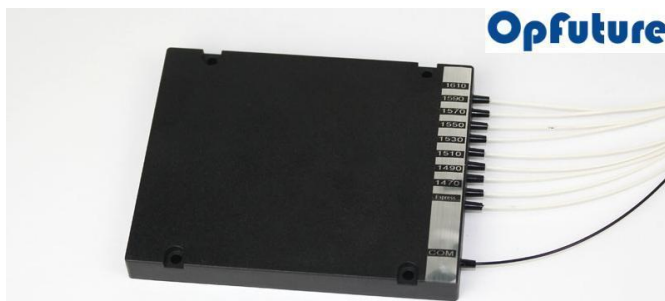
- Low Insertion Loss
- High Isolation
- Low PDL
- Compact Design
- Wide Operating Wavelength
- Wide Operating Temperature
- High Reliability and Stability

3. Applications

- CWDM System
- Access networks
- CATV Links
- Enterprise networks
- Metro WDM Systems

4. Compliance

- Telcordia GR-1209-CORE
- Telcordia GR-1221-CORE
- RoHS



5. Specifications

1×N CWDM Mux/Demux Module

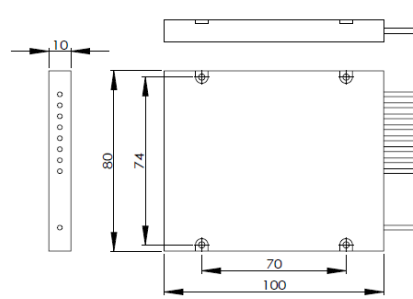
Parameters		Unit	1x2	1x4	1x8	1x16
Center Wavelength		nm	ITU, ITU+1			
Passband		nm	ITU±6.5			
Operating Wavelength		nm	1260~1620			
Channel Space		nm	20			
Fiber Type		NA	G652D or customized			
Insertion Loss		dB	≤1.0	≤1.7	≤2.5	≤3.5
Isolation	Adj. Channel	dB	≥30			
	Non-Adj.Channel		≥40			
Ripple		dB	≤0.3	≤0.4	≤0.5	≤0.5
PDL		dB	≤0.2			
PMD		ps	≤0.1			
RL		dB	≥45			
Directivity		dB	≥50			
Maximum Optical Power		mw	≤500			
Operating Temperature		°C	-5 to +70			
Storage Temperature		°C	-40 to +85			
BOX Package		mm	100x80x10			120x80x18
LGX Package			1U, 2U			
19'' Rack mount Package			1U			

Notes:

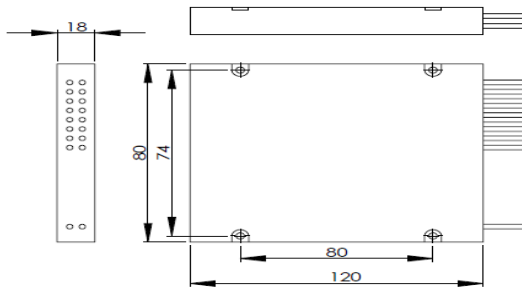
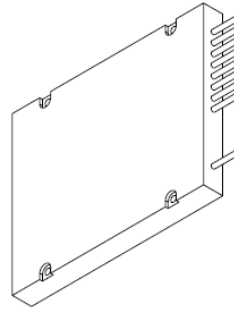
1. Specified without connectors.
2. Add an additional 0.2dB loss per connector.
3. The most channels will be 18CH, and you can add Monitor and Express port.

6. Mechanical Dimensions

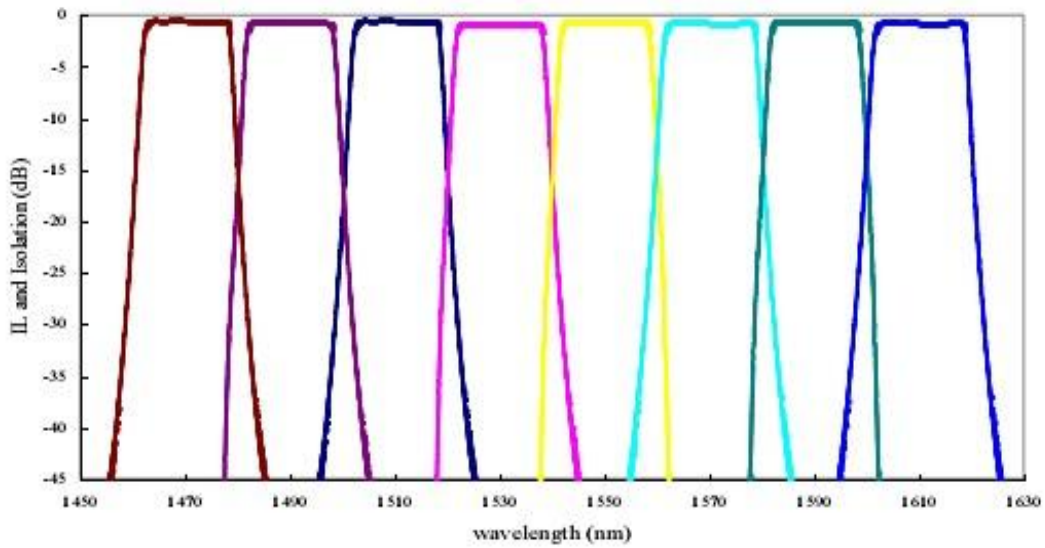
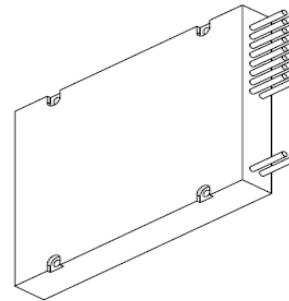
BOX



100X80X10mm



120X80X18mm



7. Ordering information

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A B C D E F G H

A	Port Type: 02=1x2 04=1x4 08=1x8 16=1x16 04E=1x4+Express 04M=1x4+Monitor 043=1x4+1310nm 04ME=1x4+Monitor&Express
B	WDM Type: C= CWDM 100= 100G DWDM 200= 200G DWDM
C	Initial Wavelength: 27=1270/1271nm 61=1610/1611nm
D	Package Type: PS=100x80x10mm (ABS) PM=120x80x18mm (ABS) LX=LGX Metal Box 19=19" Rack mount
E	Fiber Type: B=250um bare fiber L=900um Loose tube T=900um Tight tube
F	Fiber Length: 10=1.0m 12=1.2m 15=1.5m
G	COM Connector: FC/UPC, FC/APC, SC/UPC, SC/APC, LC/UPC, LC/APC
H	Channels Connector: FC/UPC, FC/APC, SC/UPC, SC/APC, LC/UPC, LC/APC

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