

# CWDM Optical Add&Drop Module

## Features:

- Low Insertion Loss
- High Channel Isolation
- Epoxy-Free in Optical Path
- Telcordia Compliant
- 1, 2, 4, 8 Channels Configuration

## Applications:

- Add/Drop System
- Unidirectional/Bi-directional Network
- CATV System



## Specifications<sup>1,2</sup>:

Parameter	Unit		Grade "A"			
Channel Number	Ch		1	2	4	
Central Wavelength ( $\lambda_c$ )		nm	1270,1290...1610 or 1271, 1291...1611			
Passband	Min.	nm	$\lambda_c \pm 6.5$			
Isolation	Add	Adjacent Channel	Min.	15		
		Non-adjacent Channel	Min.	15		
	Drop	Adjacent Channel	Min.	30		
		Non-adjacent Channel	Min.	50		
	Express Channel	Min.	25			
Insertion Loss	Pass Channel	Max.	dB	0.7	1.0	2.0
	Express Channel	Max.	dB	0.6	1.0	2.0
Ripple in Passband	Max.	dB	0.5			
Directivity	Min.	dB	50			
Polarization Dependent Loss	Max.	dB	0.10			
Polarization Mode Dispersion	Max.	ps	0.10			
Return Loss	Min.	dB	45			
Fiber Type	Corning SMF-28e with 900 $\mu$ m buffer					
Fiber Length	Min.	m	1.0+/-0.1			
Power Handling	Max.	mW	500			
Operating Temperature			°C	0~70		
Storage Temperature			°C	-40~85		
Package Dimension			mm	(L)120 × (W)80 × (H)9		
LGX Package <sup>4</sup>				1U	2U	2U
19" Rackmount Package <sup>4</sup>				1U	1U	1U

1. All specifications include the effect of operating temperature and all states of polarization.
2. Values referenced without connectors and insertion loss for a connector-pair is 0.20dB(typ.) and 0.30dB(max.).
3. Fiber length include rubber boot and exclude the connector.
4. LGX and 19" rackmount package is designed according to industry standard.

**Dimension:**

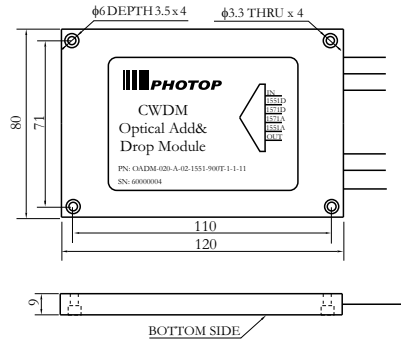


Figure 1. 2 Channel CWDM OADM

**Order Information:**

OADM - 020 - X - XX - XXXX - XXXX - X - X - XX  
                   A    B        C        D        E    F    G

A	Grade	A=Grade "A" S=Custom
B	Channel Number	01=1 channel 02=2 channel 04=4 channel 08=8 channel
C	Initial Channel	1470= Central wavelength 1470 nm . . 1510= Central wavelength 1510 nm
D	Fiber Type <sup>1</sup>	900L=900 μm loose tube 900T=900 μm tight buffer fiber
E	Directions	1= Single direction 2= Dual directions
F	Through Ports	1=Without through port 2=With through port
G	Connector	NN=W/O connector XY=With connector <sup>2</sup>

1. 2mm or 3mm yellow cable is available upon request.
2. Please specify the type of connector as below when ordering.

Mechanical Type	SC	FC	ST	MU	LC
X	1	2	3	4	5
Physical Contact Type	PC	UPC	APC		
Y	1	2	3		