

# OADM(DWDM) Module Spec



Optical interpolator (OADM) is used for the DWDM system optical loop in the wavelength (Add) under (Drop) signal, this product wavelength stability is good, can meet the needs of different DWDM system. OADM implements the functions of traditional electro-SDH interpolation in the optical domain, and is transparent enough to handle signals in any format and rate, which is superior to the electrical ADM (plug-in multiplexer) used in the SDH network

## Features

- Low Insertion Loss
- Wide band
- High isolation
- Epoxy-free optical path
- High stability and reliability



## Application

- DWDM channel Add/Drop
- Metro networks
- CATV system

## Performance Specifications

Parameters	Specifications		Unit	
	4CH	8CH		
Operating Wavelength	1460-1620		nm	
Channel Wavelength	ITU Grid		nm	
Channel Spacing	100 / 200		GHz	
Channel Passband(@-0.5dB bandwidth)	≥0.3(100GHz) / ≥0.5(200GHz)		nm	
Insertion Loss <sup>1</sup>	In=>Drop@drop	≤2.0	≤3.2	dB
	Add=>Out@add	≤2.0	≤3.2	dB
	In=>Out@Other	≤2.5	≤5.0	dB
Isolation	Adjacent	≥30		dB
	Non-adjacent	≥40		dB
Insertion Loss Temperature Sensitivity	≤0.5		dB	
Ripple	≤0.5		dB	
Wavelength Temperature Shifting	≤0.002		nm/°C	
Polarization Dependent Loss	≤0.2		dB	
Polarization Mode Dispersion	≤0.1		ps	
Directivity	≥50		dB	
Return Loss	≥45		dB	
Maximum Power Handing	300		mW	
Operating Temperature	-10~+70		°C	
Storage Temperature	-40~+85		°C	
Package size	L100×L80×H10	L120×L80×H18	mm	
	Rackmount			

\*Notes: 1. Insertion Loss tested without connector.

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## Order information:

OADM ModulePN: OADMM-XXXXXXXX-XX (OADMM+9 Code+2 Serial Number)

OADM	X	XXX	X	X	X	X	X	X	XX					
	Channel	Start Wavelength	Package Type	Fiber Jacket	Fiber Length	Connector	Type							
1	1CH	270	CWDM 1270	A	ABS:90×20×10	0	250um Bare Fiber	0	0.5m	0	none	M	Mux	
2	2CH	271	CWDM 1271	B	ABS:80×58×8	1	0.9mm Loose	1	1.0m	1	SC/UPC	D	Demux	
3	3CH	C21	DWDM C21	C	ABS:80×60×12	2	2.0mm Loose	2	1.5m	2	SC/APC	A	Mux+Demux	S
4	4CH	H20	DWDM H20	D	ABS:100×45×10	3	3.0mm Loose	3	2.0m	3	FC/UPC	B	(M)+UPG	N
5	5CH	...	...	E	ABS:100×80×10	4	0.9mm Tight Tube	4	2.5m	4	FC/APC	C	(D)+UPG	
6	6CH	00S	Special	F	ABS:120×80×18	5	2.0mm Tight Tube	5	3.0m	5	LC/UPC	E	(M)+TAP+UPG	
7	7CH			G	ABS:140×114×18	6	3.0mm Tight Tube	6	3.5m	6	LC/APC	F	(D)+TAP+UPG	
8	8CH			H	Metal Box	M	MM Fiber	7	0.7m	7	ST/UPC	S	Special	
9	9CH			J	Insert Box	P	PM Fiber	8	1.2m	8	E2000			
A	10CH			K	Rackmount	S	Special	9	2.7m	9	MPO			
B	11CH			L	LGX Box			S	Special	S	Special			
C	12CH			M	Pallet Type									
...	...			S	Special									



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