

# OADM-1001-VOA (100GHz)

100GHz DWDM Optical add/drop Multiplexer (CATV Overlay Multiplexer)

## PRODUCT DESCRIPTION

OADM-1001-VOA is an optical Add-Drop multiplexer with 100GHz channel interval. It is based on mature thin film filter technology, sealed with metal shell, and featured with low insertion loss, high isolation, wide channel and flexible configuration. It is the ideal device to Add(insertion Add)/Drop(Tape-out Drop) a specific wavelength(OADM) in optical fiber DWDM system. OADM-1001-VOA configures a manual-adjust optical attenuation, for adjust the equilibrium the optical power between insert channel and main signal channel, which is conveniently used for VOD overlay in CATV system.

## PRODUCT FEATURE

- ▶ 100GHz ITU channel spacing, option 200GHz (OADM-2000).
- ▶ Low insertion loss.
- ▶ Wide pass band.
- ▶ High channel isolation.
- ▶ High stability and reliability.
- ▶ Optical path without epoxy glue.

## MAIN APPLICATION

- ▶ DWDM network channel Add/Drop.
- ▶ Wavelength routing
- ▶ CATV fiber optical system



## TECHNIQUE INDEX

Performance		Index			Supplement
		Min.	Typ.	Mzx.	
Center wavelength	(nm)	ITU			
Center wavelength accuracy	(nm)	± 0.05			
Channel bandwidth	(nm)	0.22			@-0.5dB bandwidth
Insertion loss	(dB)			1.0	Transmission
				0.4	Reflection
Channel flatness	(dB)			0.3	
Add/drop channel	Adjacent	(dB)		0.6	OADM-1001N/A
insertion loss	Non-Adjacent			1.0	N/A
Reflection isolation	(dB)	12			
Insertion loss thermostability	(dB/°C)			0.003	
Wavelength thermostability	(nm/°C)			0.002	
Polarization mode dispersion	(ps)			0.1	
Directivity	(dB)	50			
Return loss	(dB)	45			
Power handlink	(mW)		300		
Operating temp.	(°C)	0		+70	
Storage temp.	(°C)	-40		+85	
Size	(mm)	140×114×18			

## VOA Technical index

Index		Type(Values)	
		P	A
Central wavelength	(nm)	1550	
Working wavelength	(nm)	1550±20	
Max.original loss	(dB)	1.0	1.2
Attenuation range	(dB)	1.0~60	1.2~50
Reflection loss	(dB)	≥50	
Adjustment accuracy	(dB)	0.02	
Power processing	(mW)	≤500	
Tension load	(N)	≤5	
Optical fiber type		28e	
Working temperature	(°C)	-5~+70	
Store temperature	(°C)	-40~+85	

## MODEL EXPLANATION

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OADM(Optical Add-Drop Multiplexer)	Product type		Add(Down) Channel		Drop(Up) Channel		VOA		ITU Channel Code		Exterior		Optical connector		Fiber length	
	05	50GHz	0	None	00	None	OOO	No	CXX	ITU CH	M01	140×114×18	LP	LC/UPC	00	Enamel installation
	10	100GHz	1	1channel	01	1channel	VOA	With	C21	1560.20	OEM	Customized	LA	LC/APC	05	0.5m
	20	200GHz	2	2channel	02	2channel							SP	SC/UPC	10	1.0m
			3	3channel	03	3channel							SA	SC/APC	15	1.5m
			4	4channel	04	4channel							FP	FC/UPC		
															FA	FC/APC