

# **OADM-1001-VOA** (100GHz)

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

#### PRODUCT DESCRIPTION

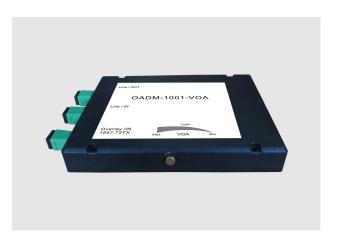
OADM-1001-VOA is an optical Add-Drop multiplexer with 100GHz channel interval. It is based on mature thin film filter technology, sealed with metal shell, and featured with low insertion loss, high isolation, wide channel and flexible configuration. It is the ideal device to Add(insertion Add)/Drop(Tape-out 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.



- ▶ 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**

Index							
Performance			Min.	Тур.	Mzx.	Supplement	
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 insertion loss	Adjacent	(dB)			0.6	OADM-1001N/A	
	Non-Adjacent				1.0	N/A	
Reflection isolation		(dB)	12				
Insertion loss thermostability		(dB/℃)			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.		(℃)	0		+70		
Storage temp.		(℃)	-40		+85		
Size		(mm)		140×114×18			



## **VOA Technical index**

linday		Type(Values)		
Index		Р	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	
Refection loss	(dB)	≥50		
Adjustment accuracy	(dB)	0.02		
Power processing	(mW)	≤500		
Tension load	(N)	≤5		
Optical fiber type		28e		
Working temperature	(℃)	-5~+70		
Store temperature	(℃)	-40~+85		

## **MODEL EXPLANATION**

