

OADM-1001-VOA Series
100GHz DWDM OADM (Optical Add-Drop
Multiplexer)
(CATV Overlay Multiplexer)
TECHNICAL INDEX

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CONTENT

1.0 PRODUCT SUMMARY.....	1
2.0 PRODUCT FEATURE.....	1
3.0 MAIN APPLICATION.....	1
4.0 DIMENSIONS.....	2
5.0 OADM-1001-VOA APPLICATION IN SYSTEM.....	2
6.0 DWDM PRODUCT PARAMETER.....	3
7.0 VOA TECHNICAL INDEX.....	4
8.0 ORDER INFORMATION.....	4

1.0 PRODUCT SUMMARY

Huatai 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.

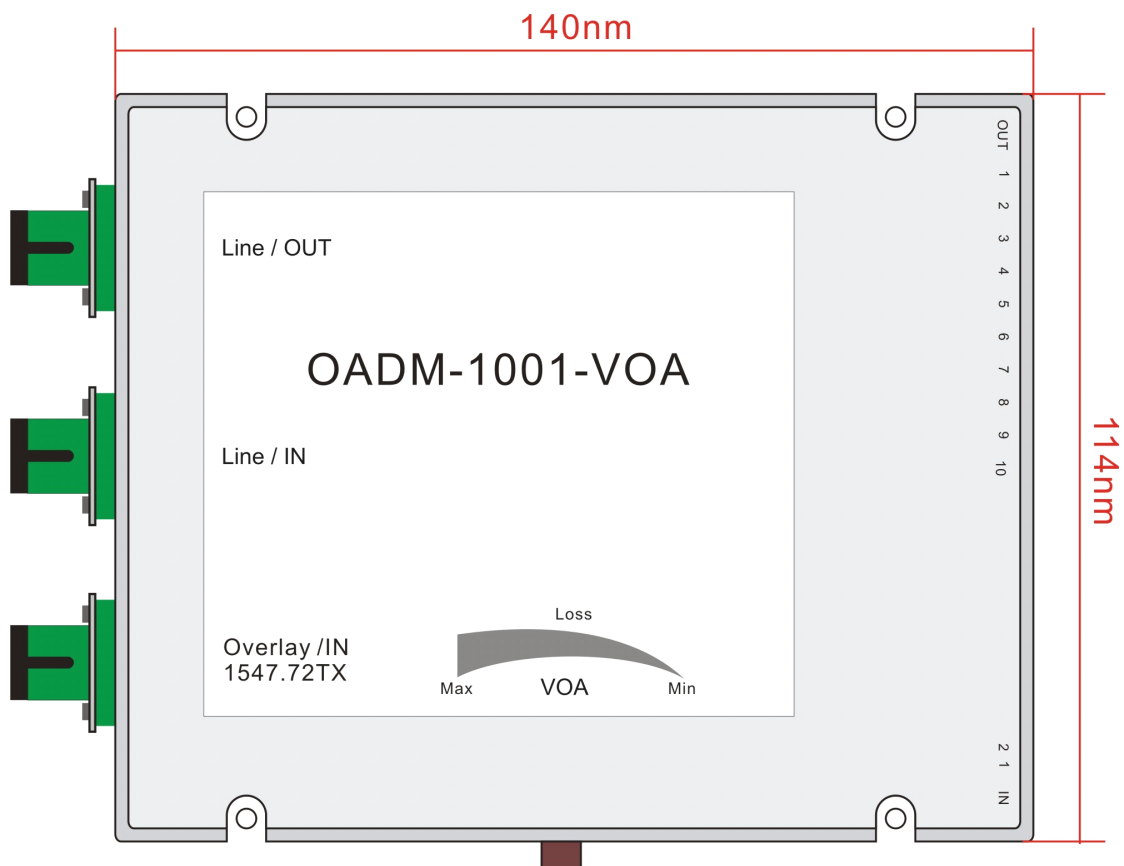
2.0 PRODUCT FEATURE

- 100GHz ITU channel interval
- Low insertion loss
- Wide passband
- Wide channel isolation
- High reliability and stability
- Optical path without epoxy glue

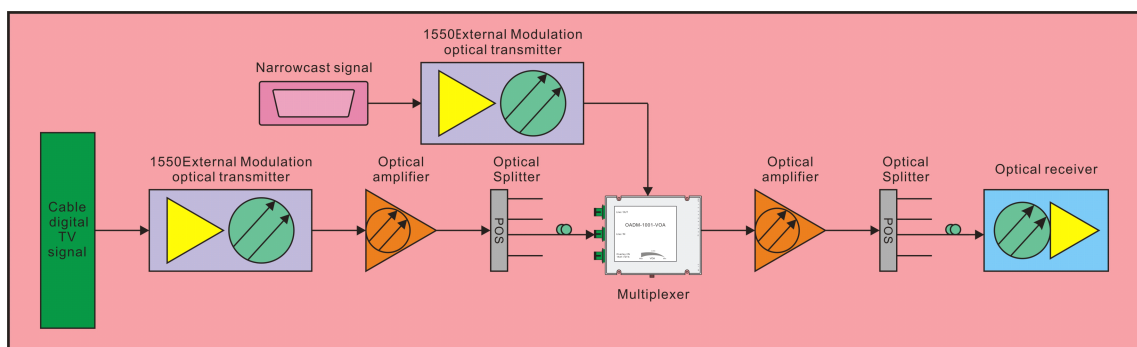
3.0 MAIN APPLICATION

- DWDM network channel Add/Drop
- Wavelength routing
- CATV optical fiber system, VOD overlay

4.0 DIMENSIONS



5.0 OADM-1001-VOA APPLICATION IN SYSTEM



6.0 DWDM PRODUCT PARAMETER

Performance		Index			Supplement
		Min.	Typ.	Mzx.	
Channel wavelength	(nm)	ITU			
Central wavelength accuracy	(nm)	±0.05			
Channel bandwidth (@-0.5dB bandwidth)	(nm)	0.22			
Insertion loss	(dB)			1.0	Transmission
				0.4	Reflection
Channel flatness	(dB)			0.3	
Add/Drop channel isolation	Adjacent	(dB)		0.6	N/A
	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			
Rated power	(mW)		300		
Working temperature	(°C)	0		+70	
Store temperature	(°C)	-40		+85	
Dimension	(mm)	140×114×18			

7.0 VOA TECHNICAL INDEX

Index		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	

8.0 ORDER INFORMATION

OADM - 10 0 1 - VOA - □□□ - □□□ - □□ / □□

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	0	None	OOO	No	CXX	ITU CH	M01	140×114×18	LP	LC/UPC	00	Enamel installation	
	10	100GHz	1	1channel	1	1channel	VOD	With	C21	1560.20	OEM	Customized	LA	LC/APC	05	0.5m	
	20	200GHz	2	2channel	2	2channel							SP	SC/UPC	10	1.0m	
			3	3channel	3	3channel								SA	SC/APC	15	1.5m
			4	4channel	4	4channel								FP	FC/UPC		
															FA	FC/APC	

Note: if the add/drop channels exceeds 2, the channel code should be declared in the order information.