

CWDM OADM

1. GENERAL DESCRIPTION

An optical add-drop multiplexer (OADM) is a device used in Wavelength-division multiplexing systems for multiplexing and routing different channels of light into or out of a single mode fiber (SMF). "add" and "drop" here refer to the capability of the device to add one or more new wavelength channels an existing multi-wavelength WDM signal, and/or drop (remove) one or more channels, passing those signals to another network path. An OADM may be considered to be a specific type of optical cross-connect. The Solid Optics OADM comes as a 1RU 19" device with rackmounts. The connectors are LC/UPC by default; other connectors available on request. In the picture you see an OADM with 2 channels.



2. GENERIC ORDERING INFORMATION

PARTNAME	DESCRIPTION
SO-CWDM-OADMXX-YY	XXCH CWDM YYnm, +/- 6.5 nm, OADM East & West, Duplex, LC/UPC connectors, 19" casing



Ordering information

<blank>	Single Mux
MOD4	Modular MUX for SO-CHASSIS-MOD4

C: CWDM
D: DWDM

MUX#	Multiplexer, # channels
OADM#	Add/Drop, # channels
EOADM#	Add/Drop, East only, # channels
ULTRAMUX#	Ultra low loss multiplexer, # channels

8CH, 10CH, 18CH	CWDM
CHXX-XX	OADM
CHXX-XX	DWDM

Only for DWDM Mux:	
<blank>	Gaussian Mux+Demux
FLAT	Flattop Mux+Demux

<blank>	19" casing	
ABS	ABS casing (for MUX in Wallmount, SO-3M/TYCO-TRAY in SO-BPEO-1)	
BARE	No casing (for ULTRAMUX in SO-3M/TYCO-TRAY in SO-BPEO-1 only)	
	SO-BPEO-1	Ground Splicing Box
	SO-3M-TRAY	3M Tray
	SO-TYCO-TRAY	Tyco Tray
TUBE	For TFF Filter	

<blank>	LC, UPC connector
SCUPC	SC, UPC connector
LCAPC	LC, APC connector
SCAPC	SC, APC connector
Ez000APC	Ez000, APC connector

<blank>	For duplex fiber
SIMPLEX	For simplex (mono) fiber

<blank>	No extra ports
+MON (4th pos)	Add monitor port
+UPG (3rd pos)	Add upgrade (1260 – 1460)
+1550W (2nd pos)	Add 1550nm (1520 – 1580)
+1310W (1st pos)	Add 1310nm (1260-1360)

3. PRODUCT SPECIFICATIONS & FEATURES

- ✓ Available up to 10 channels from 1270 to 1610nm with 20nm steps
- ✓ Has East & West Channel
- ✓ Custom versions are available on request
- ✓ Operating Temperature -40 to 75 °C
- ✓ Average loss in/out 1.1dB
- ✓ Comes with LC/UPC connectors
- ✓ Passive, no electricity needed

4. TECHNICAL SPECIFICATIONS

PARAMETER	UNIT	VALUE
OPERATING WAVELENGTH	nm	1270 -1610, 20 steps
ADD DROP WAVELENGTH	λ	$\lambda_1(1)$, $\lambda_1(2)$ and $\lambda_2(1)$, $\lambda_2(2)$
INSERTION LOSS IN-OUT	dB	<0.8 for 1 port, <1.0 for 2 ports
ADD-OUT	dB	<0.6 for 1 port, <0.8 for 2 ports
IN-DROP	dB	<0.6 for 1 port, <0.8 for 2 ports
ISOLATION ADJACENT	dB	>30
ISOLATION NON-ADJACENT	dB	>40
RETURN LOSS	dB	<-45
POLARIZATION DEPENDENT LOSS	dB	<0.1
TEMPERATURE DEPENDENT LOSS	dB	<0.1
POLARIZATION MODE DISPERSION	dB	<0.1
MAXIMUM OPTICAL POWER	mW	300
CONNECTION	-	LC/UPC
PACKAGING SIZE	-	19"RACK
OPERATING TEMPERATURE	°C	-40 to 75 °C
STORAGE TEMPERATURE	°C	-55 to 85 °C

5. WARNING & SYMBOLS



Solid Optics EN N.V. has tested the equipment based on European legislation and it is safe, doesn't intervene with other electronic devices and that it is not affected by interference from other Electronic devices.



Hazardous Goods; Our equipment complies with Directive 2011/65/EU (RoHS II) and 2002/95 EC (RoHS I)

6. DISCLAIMER & COPYRIGHT

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