

DWDM-OADM Module

Features

- Low insertion loss
- Low PDL
- High channel isolation
- Excellent environmental reliability

Applications

- WDM system
- CATV



DWDM OADM can solve the shortage of fiber resources and transparent transmission of business, and reduce the cost of network Construction. With low-cost and compact dimension, it is mainly used in metropolitan area network and access layer, also be used to build networks.

Specifications

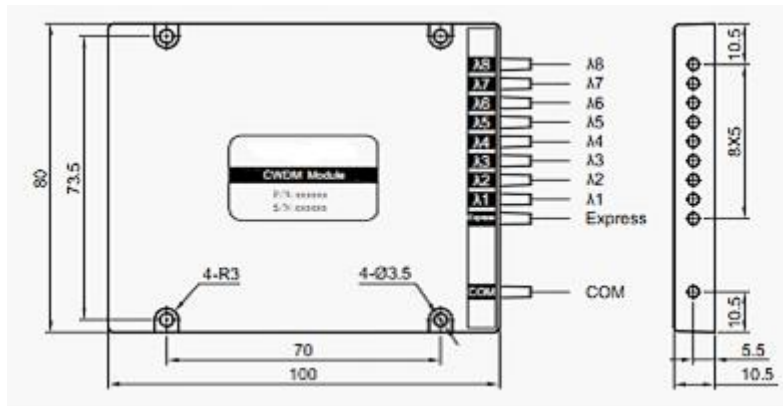
Parameters		Unit	OADM-D				
Wavelength Range			ITU channels 186.6to196.1THz				
Channel Center Wavelength		nm	ITU Grid				
Channel Spacing		Ghz	100			200	
Channel;Passband;(@-0.5dB)		nm	0.22			0.5	
Channel No.		λ	1	2	4	8	
Insertion Loss	Add/Drop	dB	≤0.8	≤1.2	≤1.7	≤3.0	
	Express		≤0.8	≤1.6	≤2.5	≤4.0	
Adjacent Channel Isolation		dB	≥ 30				
Non-adjacent Channel Isolation		dB	≥ 45				
Wavelength thermal stability		nm/℃	≤ 0.003				
Insertion loss thermal stability		dB/℃	≤ 0.005			≤ 0.007	≤ 0.008
PDL		dB	≤ 0.1	≤0.15	≤0.15	≤ 0.20	≤ 0.25
Polarization mode dispersion		ps	≤ 0.1			≤ 0.15	
Directivity		dB	≥ 50				
Return loss		dB	≥ 45				
Optical Power		mW	≤ 500				
Operating Temperature		℃	-10 ~ +70				
Storage Temperature		℃	-40 ~ +85				
Relative Humidity		%	5 ~ 95				
Dimension		mm	ABS Box or LGX Box or 1U(2U) Rackmount				

Note: 1. Customization is available.

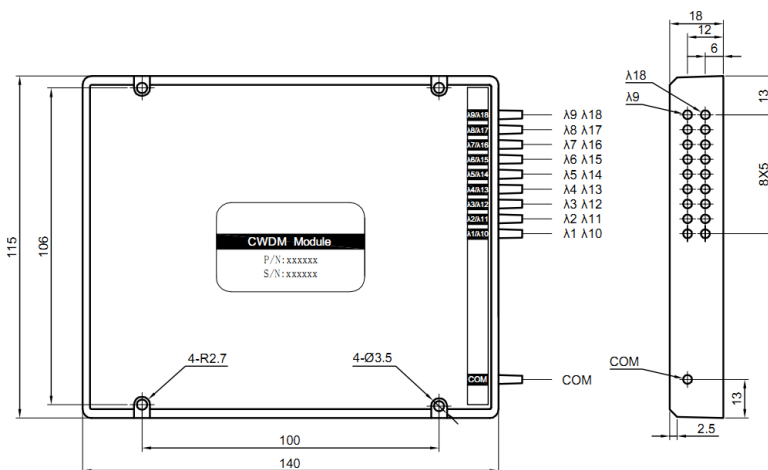
2. Specified without connector, and add an additional 0.2dB loss per connector.

Dimension

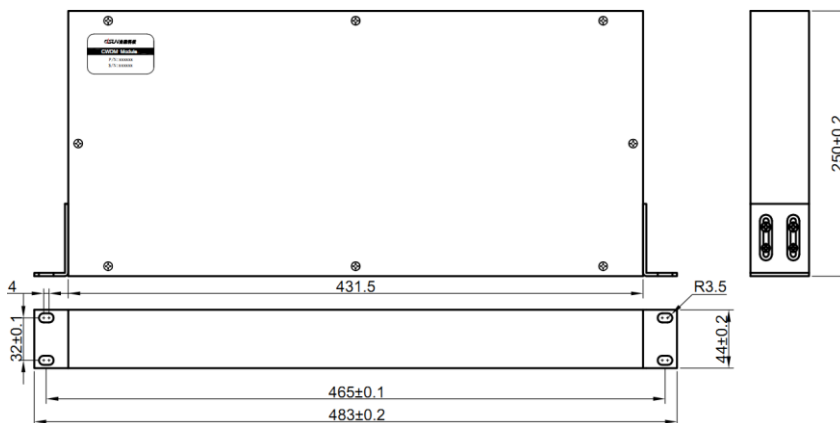
1081: 100×80×10.5 mm



1411: 140×115×18 mm



1U



Technical drawing of the CWDM module showing three views: top, side, and front views.

Top View: A rectangle with a width of 156 and a height of 102. A label is positioned in the center-right area, containing the text "CWDM Module", "P/N: XXXXXX", and "S/N: XXXXXX".

Side View: A vertical cross-section showing the module's profile. The total height is 129. The module is mounted on a base with a thickness of 1.5. The internal components are shown in a cross-sectioned state.

Front View: A vertical cross-section showing the module's front profile. The total height is 118. The module is mounted on a base with a thickness of 1.5. The internal components are shown in a cross-sectioned state. The front view also shows a 9.6x7 area and a 17.5 area.

The diagram illustrates a multi-ported memory structure. It features a central vertical line representing a memory array. To the left of this line, there are two groups of ports, each consisting of a 'COM' (Common) port and a series of 'R' (Read) ports. Each 'R' port is connected to a buffer labeled 'T λ_i'. To the right of the central line, there are two groups of output ports, each consisting of a 'Drop' port and a series of 'Add' ports. Each 'Add' port is connected to a buffer labeled 'T λ_i'. The diagram shows the internal connections between the memory array and the external ports.

Ordering Information: CWDM-A-B-C-D-E-F

A	B	C	E	F	G
Channel No.	Tube Type	Fiber Length (Include connector)	Connector	Dimension	Channel Number Detail
8:8 channels	25:250um	05: 0.5m±0.05m	OO:None	1081:100×80×10.5mm	A CH21/CH22/CH23 / ...
n:n channels	90:900um	10: 1.0m±0.05m	FP:FC/PC	1411:140×115×18mm	D CH21/CH22/CH23/ ...
	20:2000um	15: 1.5m±0.05m	FA:FC/APC	1U:1U	Channel Number
	30:3000um	X: Others	SP:SC/PC	GX:156×102×29mm	
	X: Others		SA:SC/APC	X:Others	
			STP:ST/PC		
			STA:ST/APC		
			LP:LC/PC		
			LA:LC/APC		
			X:Others		