DWDM-OADM Module

Features

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

Applications

- WDM system
- CATV

DWDM Module 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.

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Specifications

Parameters	Unit	DWDM Module				
Wavelength Range		ITU channels 186.6 to196.1 THz				
Channel Center Wavelength	nm	ITU channels				
Channel Spacing	Ghz	100		200		
Channel Passband (@-0.5dB)	nm	0.22		0.5		
Channel No.	λ	2	4	8	16	32
Insertion Loss	dB	≤ 1.4	≤ 2.0	≤ 2.8	≤4.5	≤ 5.5
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.

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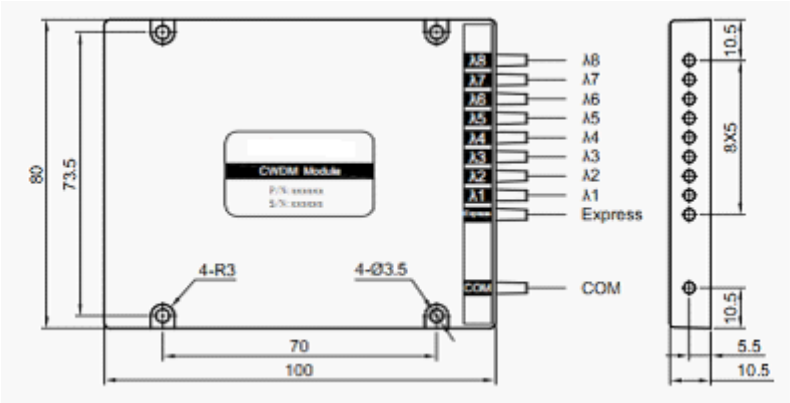
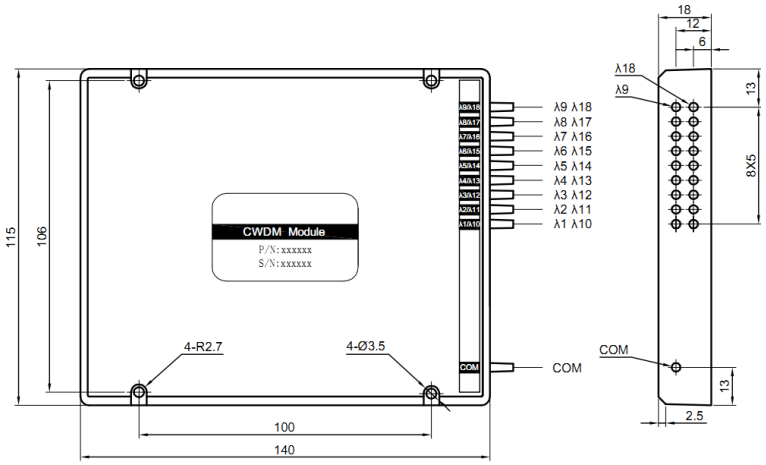
Dimension

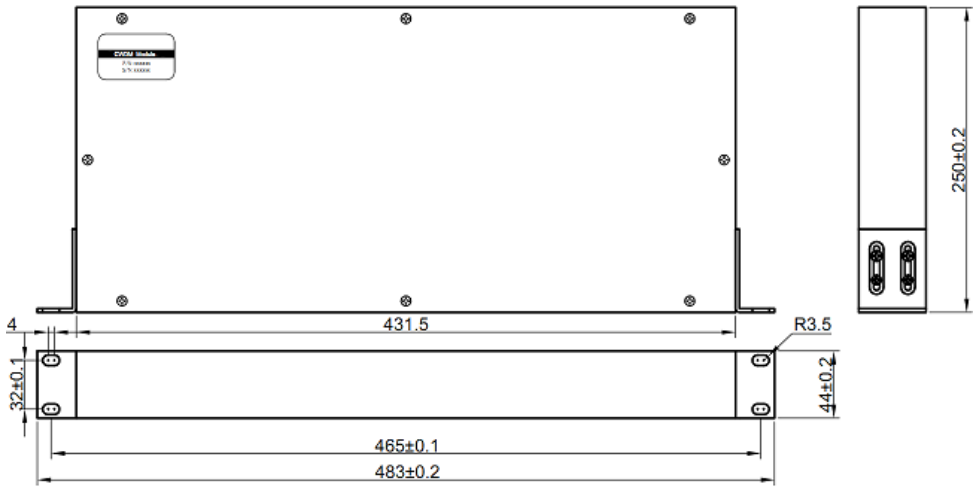
1081: 100×80×10.5 mm



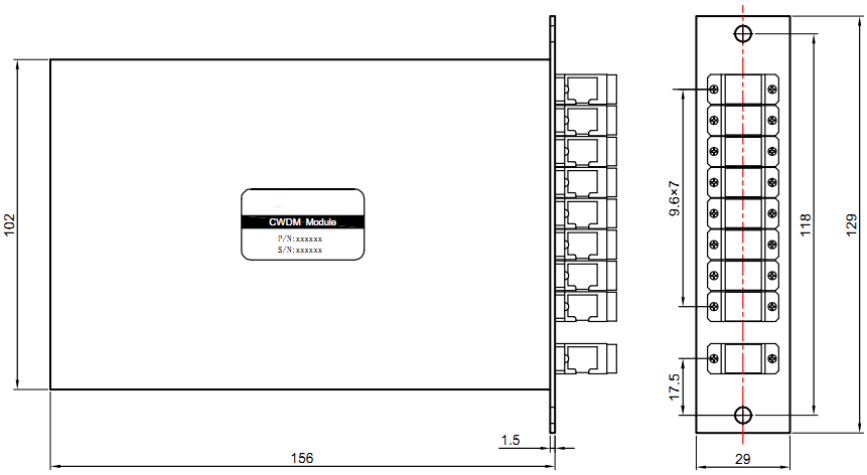
1411: 140×115×18 mm



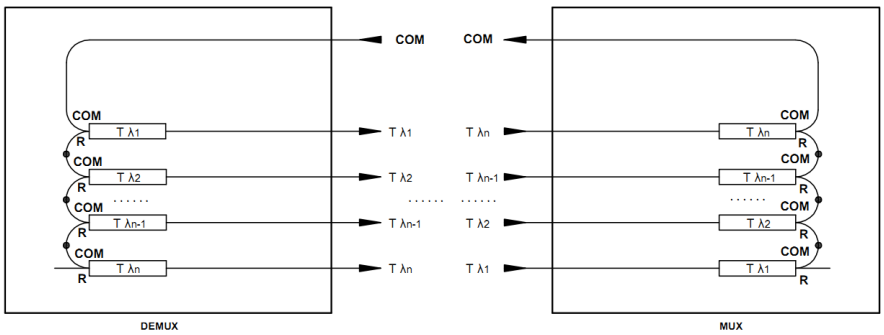
1U



LGX



Optical path connection diagram



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

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