

## Compact CWDM Mux/Demux Module

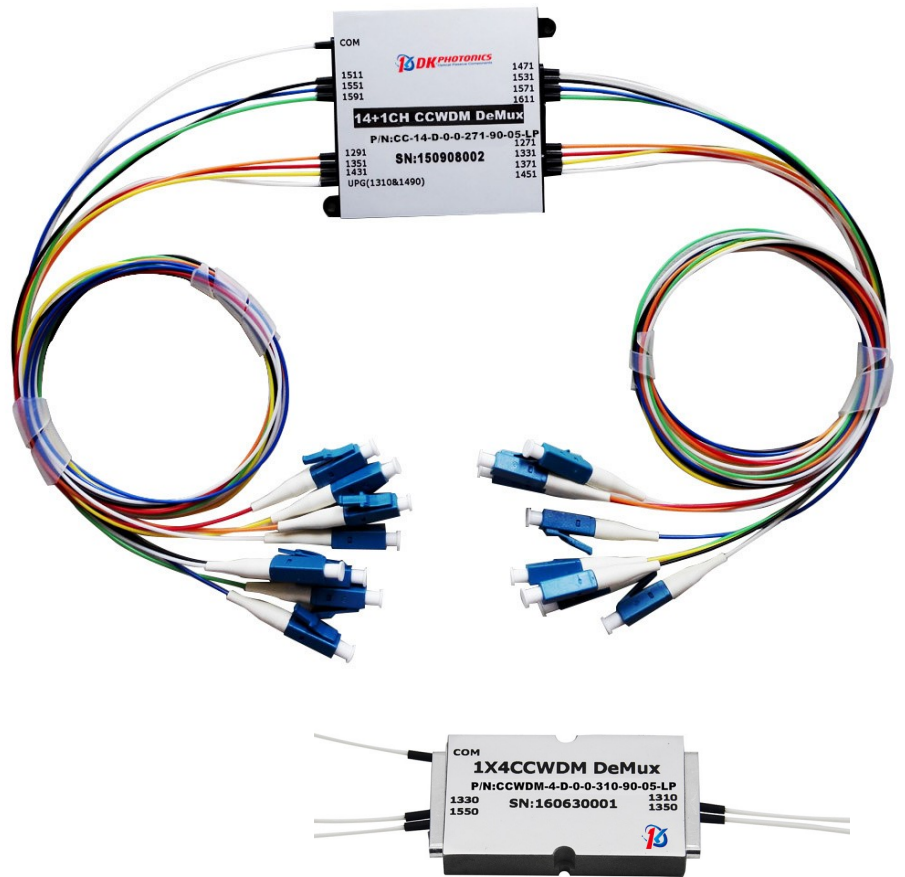
DK Photonics offers a Mini CWDM (compact CWDM) module that provides bandwidth capacity expansion for future network growth in one of the industry's smallest packages. The compact CWDM modules are based on free space optics technology. It is available in 4-or up to 18- channel configurations. It has lower overall insertion loss and better uniformity across the channels. Its compact size and unique carrier tray set it apart, making it easier to deploy in a variety of field situations.

### Key Features

- Compact Size
- High Reliability
- Low Insertion Loss and Better Uniformity
- Ultra High Thermal Stability
- Epoxy-Free in Optical Path
- Protocol Transparent
- Simple to install and use

### Applications

- CWDM System
- CATV System
- Network upgrading



## For more Info

Please contact us at:

Tel: +86-755-23736280

Fax: +86-755-26746512

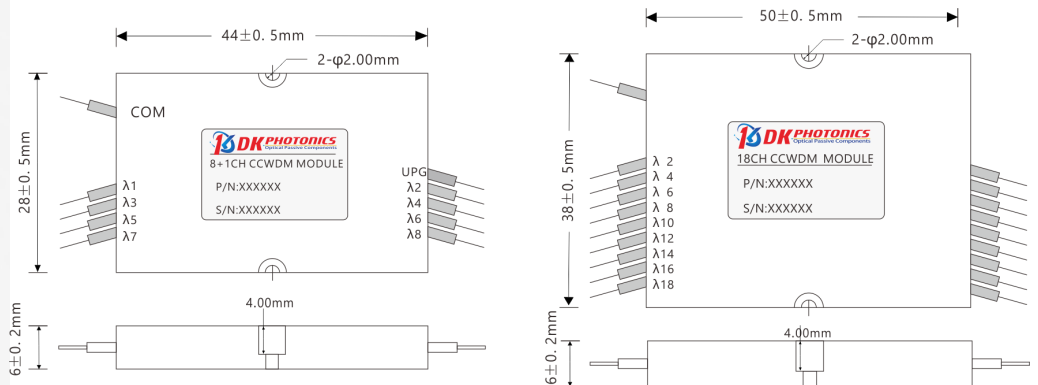
E-mail: [sales@dkphotonics.com](mailto:sales@dkphotonics.com)

<https://www.dkphotonics.com>

Add.:

4F, Bldg. 18, Qinghu Industrial Park,  
Dahe Road, Longhua Dis.,  
Shenzhen, China 518109

### Package Dimension:



\*Due to ongoing design improvements, the package size is subject to change. Please contact DK Photonics for confirmation if you have special requirements.

## Compact CWDM Mux/Demux Module

### Performance Specifications

Parameter	Unit	Values				
Channel Number	CH	4	8	12	18	
Central Wavelength	nm	1270, 1290...1610 or 1271, 1291...1611				
Passband	Channels	nm	+/-6.5			
	Express Port	nm	1310+/-50, or 1260~1457, or 1462~1620			
Insertion Loss	Channels	dB	<1.0	<1.8	<2.8	<3.5
	Mux	Adjacent Channel	dB	>15		
		Non-adjacent Channel	dB	>15		
Isolation	Adjacent Channel	dB	>30			
	Demux	Non-adjacent Channel	dB	>40		
		Upgrade port	dB	>15		
Ripple in Pass-band	dB	<0.5				
Directivity	dB	>50				
Polarization Dependent Loss	dB	<0.20				
Polarization Mode Dispersion	ps	<0.20(GD)				
Return Loss	dB	>45				
Fiber Type	-	Corning G657A1				
Power Handling	mW	<500				
Operating Temperature	°C	-10~70(or -40~85)				
Storage Temperature	°C	-40~85				
Package Dimension	4~8CH	mm	(L)44.0x(W)28.0x(H)6.0			
	10~18CH	mm	(L)50.0x(W)38.0x(H)6.0			

1.The above specification is without connector.

2. IL is 0.3 dB higher and RL is 5 dB lower for each connector added.

### Order information

P/N: CCWDM-①-②-③-④-⑤-⑥-⑦-⑧

When you inquire, please provide the correct P/N number according to our ordering information, and attach the appropriate description would be better. If need any connector, we do not recommend choosing a 250μm bare fiber pigtail.

①	②	③	④	⑤	⑥	⑦	⑧
Channel	Module Type	Package	Operating Temperature	1st Channel	Pigtails Diameter	Fiber Length	Connector
4: 4 Channel 8: 8 Channel 4+1: 4+ Express Channel 8+1:8+ Express Channel 18+1:18+Express Channel	M:Mux D:DeMux	0:Standard 1:Special	0: -10~70°C 1: -30~70°C 2: -40~85°C	270:1270nm 271:1271nm ... 510:1510nm 531:1531nm	25:250μm bare fiber 90:900μm loose tube XX: Others	05:0.5m 10:1.0m 15:1.5m XX: Others	00: None FP: FC/PC FA: FC/APC SP: SC/PC SA: SC/APC LP: LC/PC LA: LC/APC X: Others

**Part Number Example:** CCWDM-8-M-0-0-471-90-05-LP

**Description:** 8 channels Compact CWDM Mux Module,1471~1611nm, without Express port, standard package, operating temperature from -10 to 70 °C, with 0.9mm OD loose tube,0.5m length fiber pigtails, LC/PC connectors at all ports.

### Ordering Information for Custom Parts

If you need to customize other specifications, please provide detailed description for your requirement.