



CWDM Mux/Demux Packed in ABS Box

Key Features

- Low insertion loss
- Wide pass band
- High channel isolation
- High stability and reliability
- Epoxy free on optical path
- Much lower cost per channel than DWDM
- Protocol Transparent
- Simple to install and use

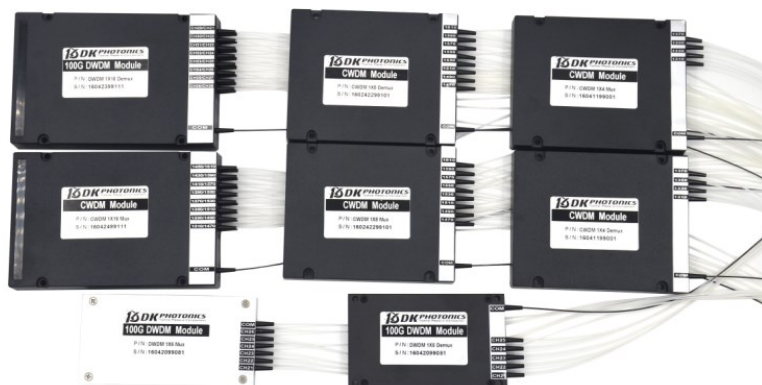
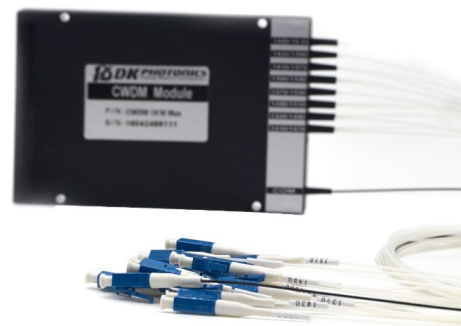
CWDM Mux/Demux Module are based on thin film filter technology. CWDM technology provides the flexibility to increase capacity of existing fiber infrastructure by enabling multiple channels (wavelengths) over the same fiber cabling. Each channel carries data independently from each other, allowing network designers to transport different data rates and protocols for different customers or applications.

DK Photonics offers a full range of CWDM Mux/Demux and Optical Add Drop Multiplexer (OADM) units to suit all kinds applications and network solutions. Some most common ones are: Gigabit and 10G Ethernet, SDH/SONET, ATM, ESCON, Fiber Channel, FTTx and CATV. The products adopt hermetic package craft and environmental stability. CWDM can solve the shortage of fiber and transparent transmission of business, and reduce the cost of network building. With low-cost low power consumption and small compact, it is widely used in metro aggregation and access layer to do transmission on a short time.

Our CWDM Mux/Demux products provide up to 16-channel or even 18-channel Multiplexing on a single fiber. Standard CWDM Mux/Demux package type include: ABS box package, LGX package and 19" 1U rack-mount. The products are Telcordia GR-1221/1209-CORE qualified, and RoHS compliant.

Applications

- Line monitoring
- WDM network
- Telecommunication
- Cellular Application
- Fiber Amplifier
- Access Network



For more Info

Please contact us at:

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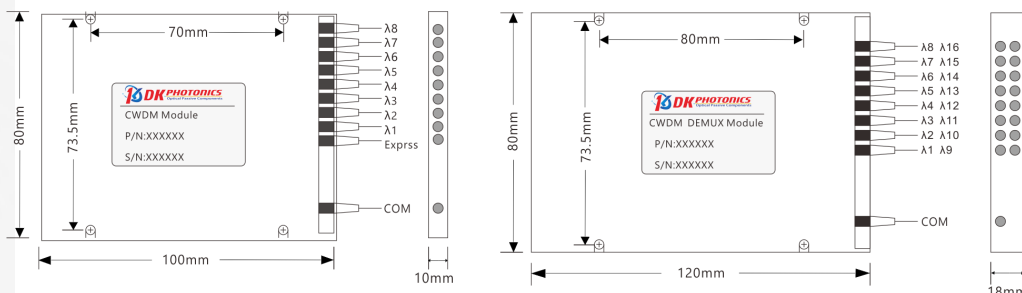
E-mail: sales@dkphotonics.com

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Add.:

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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.



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Performance Specifications

Parameter	Unit	Value						
Channel	-	4 Channel		8 Channel		16 Channel		
Configuration	-	MUX	DEMUX	MUX	DEMUX	MUX	DEMUX	
Operating Wavelength	nm	1270-1610 or 1271-1611						
Center Wavelength Accuracy	nm	± 0.5						
Channel Spacing	GHz	20nm						
Channel Passband (@-0.5dB bandwidth)	nm	±6.5						
Insertion Loss	dB	≤ 1.6		≤ 2.5		≤ 3.5		
Channel Uniformity	dB	≤ 0.6		≤ 1.0		≤ 1.5		
Channel Ripple	dB	< 0.3						
Isolation	Adjacent	dB	N/A	>30	N/A	>30	N/A	>30
	Non-adjacent	dB	N/A	>40	N/A	>40	N/A	>40
Insertion Loss Temperature Sensitivity	dB/°C	≤0.005						
Wavelength Temperature Shifting	nm/°C	≤0.002						
Polarization Dependent Loss	dB	≤0.10						
Polarization Mode Dispersion	ps	≤0.10						
Directivity	dB	≥50						
Return Loss	dB	≥45						
Maximum Power Handling	mW	300						
Operating Temperature	°C	-5 ~ +75						
Storage Temperature	°C	-40 ~ +85						
Package Dimension	mm	L100xW80xH10		L100xW80xH10		L120xW80xH18		
				L120xW80xH18		L140xW115xH18		
				Mux&Demux)		(Mux&Demux)		

- 1.The above specification is without connector.
2. IL is 0.3 dB higher and RL is 5 dB lower for each connector added.
3. Channel count is from low to high for mux and high to low for demux if mux & demux are packaged in one cassette.
4. Other specifications can be made on customer request.

Order information

P/N: CWDM-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	Configuration	1st Channel	Express Port	Monitor port	Pigtails Diameter	Fiber Length	Connector
4:4Channel	M:Mux	510:1510nm	0:No Express	00:No Monitor	25:250µm	05:0.5m	00:None
8:8 Channel	D:DeMux	511:1511nm	1:W/Express	01:1% Monitor	90:900µm	10:1.0m	FP: FC/PC
16:16Channel	O:Mux&Demux	550:1550nm		02:2% Monitor	20:2.0mm	15:1.5m	FA: FC/APC
		551:1551nm		05:5% Monitor	30: 3.0mm	XX:Others	SP: SC/PC
		XX: Others		XX: Others			SA: SC/APC
							LP: LC/PC
							LA: LC/APC
							X: Others

Part Number Example: CWDM-4-M-470-0-02-90-10-LP

Description: 4 channel CWDM Mux Module packed in ABS Box, 1470nm~1530nm, no express port, with 2% monitor, 0.9mm OD loose tube, 1.0m 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.