

CWDM Mux/Demux Packed in LGX/Rack

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

Applications

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

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.

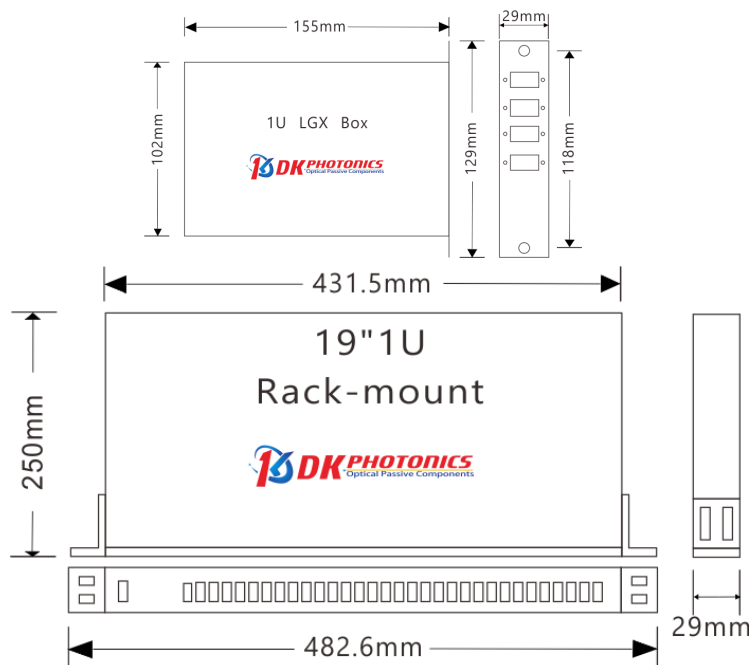
DK Photonics offers a full range of CWDM Mux/Demux and Optical Add Drop Multiplexer (OADM) units to suit all kinds applications and network solutions. Some most common ones are: Gigabit & 10G Ethernet, SDH/SONET, ATM, ESCON, Fiber Channel, FTTx and CATV. The products adopt hermetic package craft and 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.



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.

For more Info

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CWDM Mux/Demux Packed in LGX/Rack

Performance Specifications

Parameter	Unit	Values						
		4 channels		8 channels		16 channels		
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		< 0.3		< 0.3		
Isolation	Adjacent	dB	N/A	>30	N/A	>30	N/A	>30
	Non-adjacent		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	LGX Box	mm						
	19" Rack	1U (L155xW129xH29 or Specify) 1U (L482.6xW165xH44 or Specify)						

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

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
Channel	Configuration	1st Channel	Express Port	Monitor Port	Package Type	Connector
4:4Channel	M:Mux	510:1510nm	0:No Express	00:No Monitor	L:LGX box	FP: FC/PC
8:8 Channel	D:DeMux	511:1511nm	1: W/Express	01:1% Monitor	R:19" Rack	FA: FC/APC
16:16Channel	O:Mux&Demux	550:1550nm		02:2% Monitor		SP: SC/PC
		551:1551nm		03:3% Monitor		SA: SC/APC
		XX: Others				LP: LC/PC
						LA: LC/APC
						X: Others

Part Number Example: CWDM-4-M-470-1-00-L-LP

Description: 4 channel CWDM Mux Module packed in LGX Box, 1470~1530nm, with express port, and no monitor port, with 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.