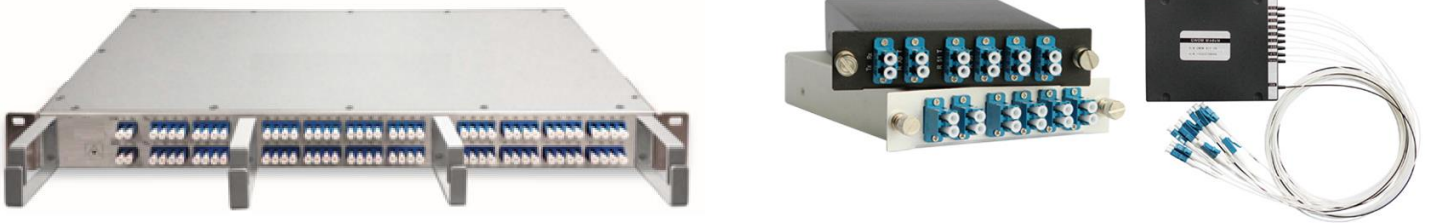




## CWDM

### Coarse Wavelength Division Multiplexer



#### Description

Coarse wavelength division multiplexer (CWDM Mux/Demux) utilizes thin film coating technology and proprietary design of non-flux metal bonding micro optics packaging. It provides low insertion loss, high channel isolation, wide pass band, low temperature sensitivity and epoxy free optical path.

**Qoptronics** CWDM products include: bare single CWDM device packed in glass tube or stainless steel tube, CWDM Mux Demux modules packed in ABS box up to 16-channel or even 18-channel Multiplexing on a single fiber or CWDM modules packed in standard 19" 1U rackmount. Due to the low insertion loss is needed in WDM networks, we can also add "Skip Component" in a CWDM Mux/Demux module to reduce the IL as an option. Standard CWDM Mux/Demux package type include: Glass tube, stainless steel tube, ABS box package, LGX package and 19" 1U rackmount.

Applications:	Features:
Line Monitoring	Low Insertion Loss
WDM Network	Wide pass band
Telecommunication	High Channel Isolation
Cellular Application	High Stability and reliability
Fiber Optical amplifier	Epoxy-free on Optical Path
Access Network	

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Parameter	4 Channel		8 Channel		12 Channel		16 Channel	
	Mux	Demux	Mux	Demux	Mux	Demux	Mux	Demux
Channel Wavelength (nm)	1270~1610/1271~1611							
Center wavelength Accuracy (nm)	±0.5							
Channel Spacing (nm)	20							
Channel Passband (@-0.5dB bandwidth (nm))	+/-7.5/+/-6.5							
Insertion Loss (dB)	≤1.5		≤2.5		≤3.0		≤3.5	
Channel Uniformity (dB)	≤0.6		≤1.0		≤1.2		≤1.5	
Channel Ripple (dB)	0.3							
Isolation (dB)	Adjacent		>30					
	Non-adjacent		>40					
Isolation (dB)	Express with filter		<0.005					
	Express without filter		>12					
Inertion Loss Temperature Sensitivity (dB/°C)	<0.005							
Wavelength Temperature Shifting (nm/°C)	<0.002							
Polarization Dependent Loss (dB)	<0.1							
Polarization Mode Dispersion	<0.1							
Directivity (dB)	>50							
Return Loss(dB)	>45							
Maximum Power Handling (mW)	300							
Operating Temperature (°C)	0~+75							
Storage Temperature (°C)	-40~+85							
Package dimension (mm) (Glass tube)	Ø4.2*25							
Package dimension (mm) (Steel tube)	Ø5.5*34							
Package dimension (mm) (ABS box)	A: L100 x W80 x H10		B: L140 x W115 x H18 or L120 x W80 x H18					
Package dimension (mm) (LGX box)	C: L129 x W29 x H155.5							
Package dimension (mm) (19" 1U Rackmount)	D: L440 x H44 x D200							

Specification may change without notice.

Above specification are for device without connectors

## Order Information:

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LQ-CWDM	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>
<b>CWDM Type</b>	<b>Wavelength</b>	<b>Mux/Demux</b>	<b>Fiber Length</b>	<b>Connector</b>
1=4Channels 2=8Channels 3=12Channels 4=16Channels XX=Others Customer Specify	wavelength beginning with 1271nm XXXX=Specify	MX=MUX DE=DEMUX XX=Specify	1=0.5m 2=1m 3=1.5m X =Customer Length	0=None 1=FC/APC 2=FC/PC 3=SC/APC 4=LC/APC 5=LC/UPC X=Specify

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