

CWDM Mux Demux | Dual Fiber

Description

The CWDM Mux demux dual fiber bidirectional solution supports up to 18 coarse wavelength channels (1270 - 1610nm) for full transmitting and receiving of CWDM signals over duplex singlemode fiber. In this configuration, all 18 CWDM channels are utilized in both directions of the network. This offers a low-cost method for utilizing the bandwidth capacity on existing fiber. Montclair passive CWDMs are available with an optional upgrade port to allow for incremental future channel add-ons.

Applications

-) Access / Metro CWDM networks
-) Enterprise networks

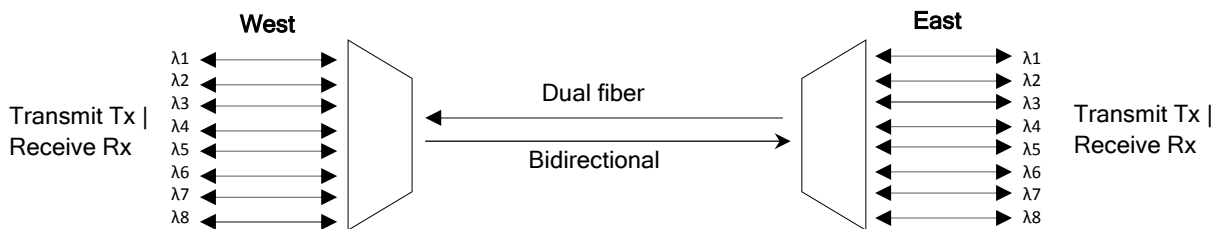
Features

-) High channel isolation
-) Wide pass band
-) Excellent environmental stability & reliability
-) Premium grade components & connectivity
-) Telcordia GR-1221 qualified
-) RoHS compliant



Mux | Demux dual fiber configuration

1. Unidirectional Mux | Demux over one fiber:



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Specifications

Parameters		Value				
Channel number		2	4	8	16	18
Central wavelength nm		ITU-T Grid				
Bandwidth (@0.5dB Passband) nm		≥ 14				
Channel passband nm		ITU±6.5				
Ripple dB		≤ 0.3				
Insertion loss dB	Typical	1.2	1.6	2.2	3.2	3.8
	Max.	1.4	1.8	2.8	5.0	5.6
PDL dB		≤ 0.10	≤ 0.15	≤ 0.20	≤ 0.25	≤ 0.30
Adj. channel isolation dB		≥ 30				
Non-adj. channel isolation dB		≥ 45				
Return loss dB		≥ 45				
Directivity dB		≥ 50				
Operating temperature °C		-5 to +70				
Storage temperature °C		-40 to +85				
Fiber type		Singlemode Bend insensitive G657A				

Note: Above values do not include connectors

CWDM reference table - ITU G.694.2

Nominal central wavelengths for 20nm spacing

1270	1450
1290	1470
1310	1490
1330	1510
1350	1530
1370	1550
1390	1570
1410	1590
1430	1610

Housing type

CWDMs available in the following standard housing types and in high-density options

LGX® module

Cassette

Rack-mount 19/23"

Note:

CWDM housing size/dimensions dependant on the number of channels and packaging in either single mux, single demux, or combination mux/demux. CWDM housing type and size determined at time of inquiry.

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Ordering information

M W - C 2 0 - 1 - 2 - 3 - 4 - 5 - 6 - 7 - 8 - 9

1. Number of channels:	2. Starting wavelength (nm):	3. Application type:
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2	27 1270 45 1450	MD Mux/Demux (bidirectional via two fiber)
4	29 1290 47 1470	
8	31 1310 49 1490	
16	33 1330 51 1510	
18	35 1350 53 1530	
Note:	37 1370 55 1550	
Available in other channels	39 1390 57 1570	
	41 1410 59 1590	
	43 1430 61 1610	

4. Housing type:	5. Adapter/connector type:	6. Fiber length Input / output (m):
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C Cassette	AFC FC/APC	0.5 ~ 5
M LGX® module	FCU FC/UPC	Note: For specifying fiber cable leads on housings with connectors or pigtails;
R Rack-mount	ALC LC/APC	<u>Leave Blank</u> if not specifying fiber cable leads
	LCU LC/UPC	
	ASC SC/APC	
	SCU SC/UPC	
	PL Pigtail	

7. Fiber cable type options:	8. Additional wideband port:	9. Upgrade/Express Port:
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9um 900um loose-tube cable	31 1310±40nm wideband	U Upgrade/Express
2mm 2.0mm diameter	55 1550±40nm wideband	Note: <u>Leave Blank</u> if not specifying Additional port
3mm 3.0mm diameter	Note: <u>Leave Blank</u> if not specifying Additional port	
Note: For specifying fiber cable leads on housings with connectors or pigtails; <u>Leave Blank</u> if not specifying fiber cable leads		

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