

Product Specification

Multiplexer DWDM 2x4 2x8 2x16 (100GHz 4,8,16-Channel Dense Wavelength Division Multiplexer)



1 Product Features

- 100GHz ITU Channel Spacing
- Low Insertion Loss
- Wide Pass band
- High Stability and Reliability
- Epoxy Free Optical Path

2 Applications Channel Add/Drop

- DWDM Network
- Wavelength Routing
- Fiber Optical Amplifier
- CATV Fiberoptic System
- Channel Add/Drop

3 Performance Specification

Parameter	4 Channel		8 Channel		16 Channel	
	Mux	Demux	Mux	Demux	Mux	Demux
Channel Wavelength (nm)	ITU 100GHz Grid					
Center Wavelength Accuracy (nm)	±0.1					
Minimum Channel Spacing (Ghz)	100 (0.8nm)					
Channel Passband (@-0.5dB bandwidth) (nm)	≥0.22					
Insertion Loss (dB)	≤2.5		≤4.0		≤4.5	

Parameter	4 Channel		8 Channel		16 Channel		
	Mux	Demux	Mux	Demux	Mux	Demux	
Channel Uniformity (dB)	≤0.6		≤1.0		≤1.5		
Channel Ripple (dB)	≤0.3						
Isolation @Add/Drop Channel (dB)	Adjacent	N/A	≥25	N/A	≥25	N/A	>30
	Non-adjacent	N/A	≥35	N/A	≥35	N/A	>40
Insertion Loss Temperature Sensitivity (dB/°C)	≤0.003						
Wavelength Temperature Shifting (nm/°C)	≤0.002						
PDL (dB)	≤0.10						
PMD (dB)	≤0.1						
Directivity (dB)	≥50						
Return Loss (dB)	≥45						
Power Handling (mW)	300						
Operating Temperature (°C)	0 ~ 70						
Storage Temperature (°C)	-40 ~ 85						
Dimensions (L×W×H) (mm)	110 × 95 × 7.5			142 × 102 × 14.5			

4 DWDM Mux/Demux Ordering information

FP DWDM	
Channel Space	1=100GHZ, 2=200GHZ, 5=50GHZ
Channel	02=2Channel, 03=3Channel, 08=8Channel, 40=40Channel
Configuration	M=Mux, D=Demux
1 st Channel	C21=1560.61, C22=1559.79, C23=1558.98
Fiber Type	B=250um Bare Fiber, L= 900um, LooseTube Jacket
Length	1=1M, 0=Others
In / Out Connector	0=None, 1=FC/UPC, 2=FC/APC, 3=SC/UPC, 4=SC/APC, 5=LC/UPC, 6=LC/APC, 7=ST/PC

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4x2		8x2		16x2		24x2		32x2		44x2	
C61	C37	C61	C37	C61	C37	C61	C37	C61	C38	C61	C38
C60	C36	C60	C36	C60	C36	C60	C36	C60	C37	C60	C37
		C59	C35	C59	C35	C59	C35	C59	C36	C59	C36
		C58	C34	C58	C34	C58	C34	C58	C35	C58	C35
				C57	C33	C57	C33	C57	C34	C57	C34
				C56	C32	C56	C32	C56	C33	C56	C33
				C55	C31	C55	C31	C55	C32	C55	C32
				C54	C30	C54	C30	C54	C31	C54	C31
						C53	C29	C53	C30	C53	C30
						C52	C28	C52	C29	C52	C29
						C51	C27	C51	C28	C51	C28
						C50	C26	C50	C27	C50	C27
								C49	C26	C49	C26
								C48	C25	C48	C25
								C47	C24	C47	C24
								C46	C23	C46	C23
										C45	C22
										C44	C21
										C43	C20
										C42	C19
										C41	C18
										C40	C17
attenuation (dB)											
2,5db		4 dB		6dB		7dB		8dB		11dB	

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BLUE BAND		RED BAND	
C61	1528,77	C38	1546,92
C60	1529,55	C37	1547,72
C59	1530,33	C36	1548,51
C58	1531,12	C35	1549,32
C57	1531,90	C34	1550,12
C56	1532,68	C33	1550,92
C55	1533,47	C32	1551,72
C54	1534,25	C31	1552,52
C53	1535,04	C30	1553,33
C52	1535,82	C29	1554,13
C51	1536,61	C28	1554,94
C50	1537,40	C27	1555,75
C49	1538,19	C26	1556,55
C48	1538,98	C25	1557,36
C47	1539,77	C24	1558,17
C46	1540,56	C23	1558,98
C45	1541,35	C22	1559,79
C44	1542,14	C21	1560,61
C43	1542,94	C20	1561,42
C42	1543,73	C19	1562,23
C41	1544,53	C18	1563,05
C40	1545,32	C17	1563,86
NOT USING			
C39	1546,12	GWARD BAND	