



Opto-Link
Corporation Ltd

Optical Wavelength Division Multiplexer (WDM)

Wavelength: 980 ~ 1600nm

Wavelength Division Multiplexer (WDM) is used to combine light with different wavelength into a fiber or separate an optical signal into two fibers. We provide two types of WDM, one is manufactured using fusion process, the other one is based on thin film filter technology. Both WDM have low insertion loss, high isolation and wide wavelength range.



Applications

- CATV System
- DWDM System
- Erbium-Doped Fiber Amplifier (EDFA)

Features

- Low Insertion Loss
- High Return Loss
- High Directivity
- Environmentally Stable
- Optical Path Epoxy Free (for TFF-WDM)



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SPECIFICATIONS

Filter Wavelength Division Multiplexer (Single Mode)

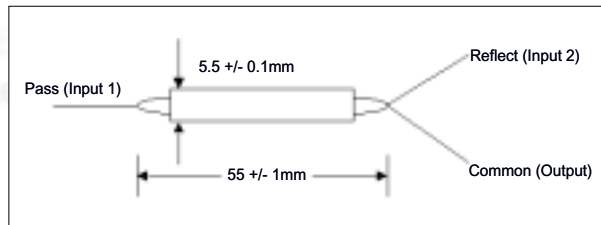
Parameter	Values			Units	
Passband	Wavelength	1550~1554	1620~1660	1440~1480	nm
	Insertion Loss	< 1.2 (Typ. 1.0)			dB
	Isolation	> 25 (Typ. 30)	> 40 (Typ. 50) (60 @ 1552 +/-2nm)	> 40 (Typ. 50) (60 @ 1552 +/-2nm)	dB
Reflection Band	Wavelength	1440~1480 & 1620~1660	1440~1554	1520~1660	nm
	Insertion Loss	< 1.0 (Typ. 0.6)			dB
	Isolation	> 12 (Typ. 15)			dB
Thermal Stability	< 0.005			dB/°C	
Return Loss	> 45			dB	
Polarization Dependent Loss (PDL)	< 0.1 (Typ. 0.05)			dB	
Tensile Load	5			N	
Handling Power	300			mW	
Fiber Type	SMF-28			--	
Operating Temperature	-5 to +70			°C	
Storage Temperature	-40 to +85			°C	

*Above specifications are for device without connectors.

Filter Wavelength Division Multiplexer (Multimode)

Parameter	Values			Units	
Passband	Wavelength	1550~1554	1620~1660	1440~1480	nm
	Insertion Loss	< 1.2 (Typ. 1.0)			dB
	Isolation	> 25 (Typ. 30)	> 40 (Typ. 50) (60 @ 1552 +/-2nm)	> 40 (Typ. 50) (60 @ 1552 +/-2nm)	dB
Reflection Band	Wavelength	1440~1480 & 1620~1660	1440~1554	1520~1660	nm
	Insertion Loss	< 1.0 (Typ. 0.6)			dB
	Isolation	> 12 (Typ. 15)			dB
Directivity	> 30			dB	
Return Loss	> 30			dB	
TDL	< 0.15			dB	
Tensile Load	5			N	
Handling Power	300			mW	
Fiber Type	Multimode GI 50/125µm			--	
Operating Temperature	-5 to +70			°C	
Storage Temperature	-40 to +85			°C	

*Above specifications are for device without connectors.



ORDERING CODES

Single Mode WDM :

OLWDM - T - [] - [] - [] - []

Configuration	Code
1 x 2	12
2 x 2	22

Wavelength	Code
1550Pass/1460&1640Reflect	1546
1640Pass/1550Reflection	1615
1460Pass/1590Reflection	1415

Fiber Type	Code
250µm bare fiber	25
900µm loose tube	90
3mm loose cable	3

Connector Type	Code
No Connector	NC
FC/PC	FP
SC/PC	SP
FC/APC	FA
SC/APC	SA
LC/PC	LP
MU/PC	MP
Others	XX

Multimode WDM :

OLWDM - M - [] - [] - [] - [] - []

Fiber Core	Code
50µm	50

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