Opto-Link
Corporation Ltd

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)

Tel: +852 2480-6106 Fax: +852 2480-1621 Email: contact@optolinkcorp.com Website: www.optolinkcorp.com

Opto-Link Corporation Ltd

SPECIFICATIONS

Fused Single Mode Wavelength Division Multiplexer (FSM - WDM)

Parameter		985	989	135	135H	135S	145	149	156	Units
Operating Wavelength		980 & 1550	980 & 1590	1310 & 1550			1480 & 1550	1480 & 1590	1550 & 1625	nm
Bandwidth		± 15		± 15			± 5	± 6	± 5	nm
Insertion Loss	Max	0.15		0.2	0.6	0.8	0.25			dB
Isolation	Min	20		17	38	45	16			dB
PDL	Max	0.1								dB
Thermal Stability	Max	0.002								dB/°C
Directivity	Min	60								dB
Configuration		1x2 or 2x2								
Operating Temperature		-40 to +85			-20 to +70		-40 to +85			°C

*Above specifications are for device without connectors.

Thin Film Filter Wavelength Division Multiplexer (TFF - WDM)

Parameter			1310 / 1550 nm	1480 / 1550 nm	1510 / 1550 nm	980 / 1550 nm	1550 / 1625 nm	Units
Passband	Wavelength		1270~1350 / 1530~1600	1450~1490 / 1530~1580	1500~1520 / 1530~1570	950~1010 / 1500~1600	1528~1563 / 1615~1635	nm
	Insertion Loss	Max	0.7				1.0	dB
	Isolation	Min	30				35	dB
Reflection Band	Wavelength		1530~1600 / 1270~1350	1530~1580 / 1450~1490	1530~1570 / 1500~1520	1500~1600 / 950~1010	1615~1635 / 1528~1563	nm
	Insertion Loss	Max	0.5				0.6	dB
	Isolation	Min	12				15	dB
Thermal Stability		Max	0.005				0.007	dB/°C
Return Loss		Min	50				45	dB
PDL		Max	0.10				0.10	dB
Tensile Load		Max	5				5	N
Handling Power		Max	300				300	mW
Operating Temperature			-5 to +70				-10 to +65	°C
Storage Temperature			-40 to +85				-40 to +85	°C

*Above specifications are for device without connectors.

ORDERING CODES

Fused Single mode WDM (FSM-WDM) :

OLWDM – F – [ ] – [ ] – [ ] – [ ]

Configuration	Code
1 x 2	12
2 x 2	22

Type and Wavelength	Code
980/1550nm	985
980/1590nm	989
1310/1550nm (Isolation >20)	135
1310/1550nm (Isolation >38)	135H
1310/1550nm (Isolation >45)	135S
1480/1550nm	145
1480/1590nm	149
1550/1625nm	156

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

Thin Film Filter WDM (TFF-WDM) :

OLWDM – T – [ ] – [ ] – [ ] – [ ]

Configuration	Code
1 x 2	12
2 x 2	22

Pass/Reflective band	Code	Pass/Reflective band	Code
1310/1550nm	135	1550/1310nm	135R
1480/1550nm	145	1550/1480nm	145R
1510/1550nm	155	1550/1510nm	155R
980/1550nm	985	1550/980nm	985R
1550/1625nm	156	1625/1550nm	156R

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

■ Opto-Link Corporation Ltd. reserves the right to make changes to the products described herein without notice.

Tel: +852 2480-6106 Fax: +852 2480-1621 Email: contact@optolinkcorp.com Website: www.optolinkcorp.com