



Opto-Link
Corporation Ltd

Optical Wavelength Division Multiplexer (WDM)

Wavelength: 1550nm/1625nm

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 Systems
- DWDM Systems
- Erbium-Doped Fiber Amplifiers (EDFAs)

Features

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



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SPECIFICATIONS

Fused Wavelength Division Multiplexer (FSM - WDM)

Parameter	Value	Units
Operating Wavelength	1550 & 1625	nm
Bandwidth	+/- 5	nm
Insertion Loss	< 0.25	dB
Isolation	> 16	dB
Directivity	> 60	dB
Polarization Dependent Loss (PDL)	< 0.1	dB
Thermal Stability	< 0.002	dB/°C
Operating Temperature	-40 to +85	°C
Fiber Length	1	m

*Above specifications are for device without connectors.

Thin Film Filter Wavelength Division Multiplexer (TFF - WDM)

Parameter	Value	Units
Passband	Wavelength	1528 to 1563
	Insertion Loss	< 1.0
	Isolation	> 35
Reflection Band	Wavelength	1615 to 1635
	Insertion Loss	< 0.6
	Isolation	> 15
Return Loss	> 45	dB
Directivity	> 50	dB
PDL	< 0.10	dB
PMD	< 0.10	ps
TDL	< 0.007	dB/°C
Operating Temperature	-10 to +65	°C
Storage Temperature	-40 to +85	°C

*Above specifications are for device without connectors.

ORDERING CODES

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

Type	Code
Fused WDM	F
TFF WDM	T

Configuration	Code
1 x 2	12
2 x 2	22

Type and Wavelength	Code
1550/1625nm	156

Connector Type	Code
No Connector	NC
FC/UPC	FU
SC/UPC	SU
FC/APC	FA
SC/APC	SA
LC/UPC	LU
ST/UPC	ST
Others	XX

Lead Type	Code
250 µm bare fiber	25
900 µm loose tube	90

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