

1480/1550 nm Micro-Optic Wavelength Division Multiplexer

MWDM-45/54 Series



Features

- Wide Operating Wavelength Range
- Low Insertion Loss
- High Channel Isolation
- Ultra Flat Wide Passband
- Highly Stable & Reliable
- Epoxy-Free Optical Path

Applications

- Fiberoptic Amplifiers
- WDM Systems
- System Monitoring
- Fiberoptic Instruments
- Transmitters and Fiber Lasers
- Lasers Laboratory R&D

OPLINK's Micro-Optic Wavelength Division Multiplexer (MWDM) is based on thin-film filter technology and metal bonding micro optics packaging. This device has very flat and wide passband, low insertion loss, and high isolation, which makes it ideal for combining pump (1480nm) and signal light (1550nm) in Optical Fiber Amplifier Systems. All OPLINK products are epoxy-free in the optical path. It is used in high-power applications in DWDM systems. OPLINK MWDM devices are Bellcore GR -1209 qualification tested.

Performance Specifications

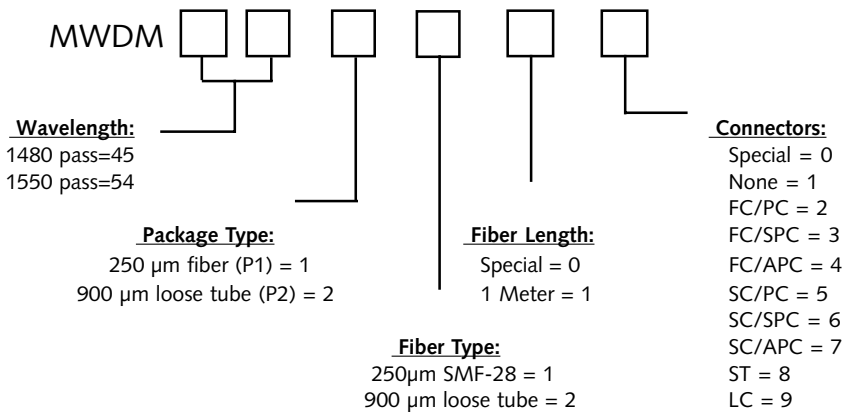
MWDM-45/54 Series

Pass Channel Wavelength Range (nm)	1530 -1580 (or 1440 -1493)	
Reflect Channel Wavelength Range (nm)	1440 -1493 (or 1530 -1580)	
Insertion Loss (dB)	Reflect Channel	≤ 0.4
	Pass Channel	≤ 0.5
Isolation (dB)	Reflect Channel	≥ 12
	Pass Channel	≥ 30
Passband Ripple (dB)	≤ 0.3	
Directivity (dB)	≥ 60	
Return Loss (dB)	≥ 55	
Polarization Dependent Loss (PDL) (dB)	≤ 0.1	
Thermal Stability (dB/ °C)	≤ 0.003	
Maximum Power Handling (mW)	300	
Maximum Tensile Load (N)	5	
Operating Temperature (°C)	0 to +70	
Storage Temperature (°C)	-40 to +85	
Package Dimension (mm)	P1: SMF-28 bare fiber	(φ)5.5 x (L)34
	P2: 900 µm loose tube	(φ)5.5 x (L)40

Values are referenced without connector loss.

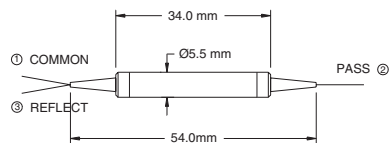
Ordering Information

Standard Oplink Micro-Optic WDMs are specified below with appropriate part number options. If you require devices different than these standard devices, please contact our local Oplink Distributor, Sales Representative, or Factory Customer Service for ordering and price information.

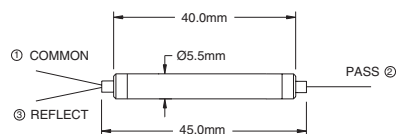


Package Dimensions:

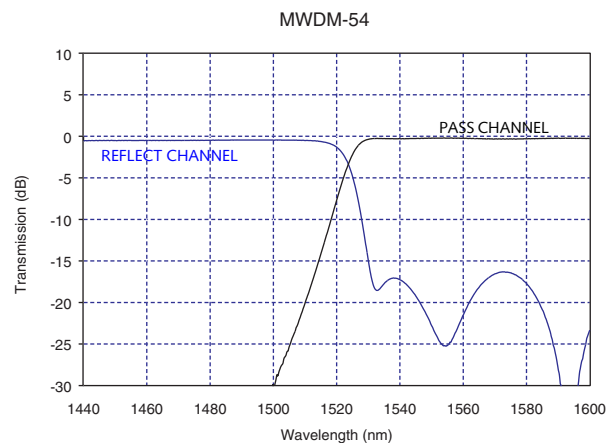
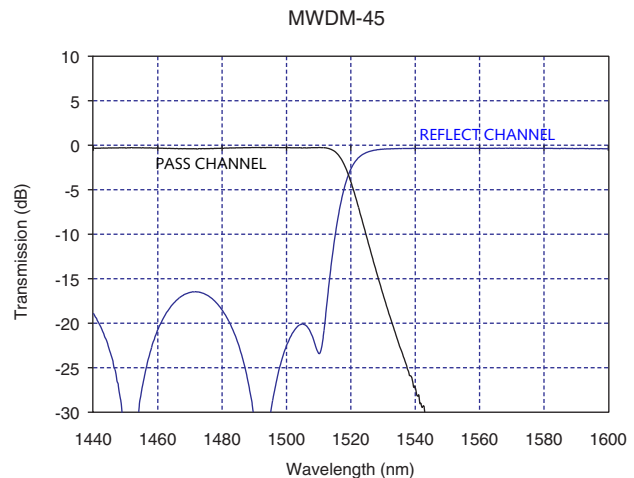
(a) P1: SMF-28 bare fiber



(b) P2: 900 μ m loose tube



Spectral Performance:



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