

# 1510/1550 and 1550/1625 nm Filter Wavelength Division Multiplexers



Lumentum 1510/1550 and 1550/1625 filter wavelength division multiplexers use interference filters to add a supervisory channel for active fiber monitoring.

Stable and reliable, filter WDMs have wide bandwidth, low insertion loss, high isolation, and low temperature dependent loss.

**Key Features**

- Thin film filter based
- Wide bandwidth
- Low insertion loss
- High isolation
- Low temperature dependent loss
- Epoxy-free optical path

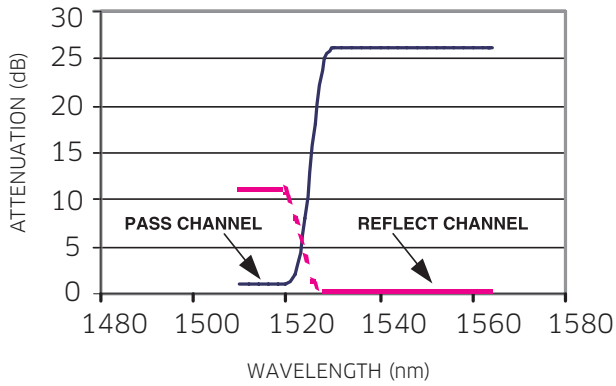
**Applications**

- Network control applications
- Amplifier chain control
- Network protocol information

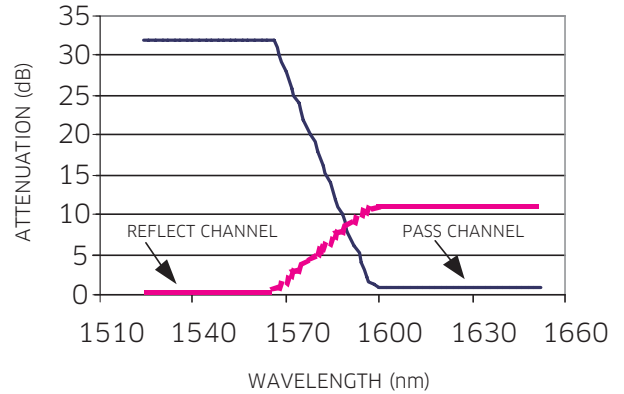
**Compliance**

- Telcordia GR-1221

Performance for 1510/1550 nm (Model D1)



Performance for 1550/1625 nm (Model E1)



Specifications

Parameter		Pass 1510 / Reflect 1550	Pass 1550 / Reflect 1510	Pass 1625 / Reflect 1550	Pass 1550 / Reflect 1625
Pass port (C↔P) wavelength range $\lambda_P$		1500 to 1520 nm	1529 to 1565 nm	1600 to 1650 nm	1529 to 1565 nm
Pass port (C↔P) insertion loss	Maximum	0.6 dB			
Pass port (C↔P) flatness	Maximum	0.3 dB			
Pass port (C↔P) isolation at $\lambda_R$	Minimum	30 dB			
Reflect port (C↔R) wavelength range $\lambda_R$		1529 to 1565 nm	1500 to 1520 nm	1529 to 1565 nm	1600 to 1650 nm
Reflect port (C↔R) insertion loss	Maximum	0.4 dB			
Reflect port (C↔R) flatness	Maximum	0.15 dB			
Reflect port (C↔R) isolation at $\lambda_P$	Minimum	12 dB			
Directivity	Minimum	55 dB			
Optical return loss	Minimum	50 dB			
Polarization dependent loss	Maximum	0.05 dB			
Polarization mode dispersion	Maximum	0.1 ps			
Temperature dependent loss	Maximum	0.1 dB			
Optical power	Maximum	500 mW			
Tensile load	Maximum	5 N			
Operating temperature		-5 to 75°C			
Storage temperature		-40 to 85°C			
Package dimensions (D x L)					
250 $\mu$ m fiber		5.5 x 35.5 mm			
900 $\mu$ m fiber		5.5 x 42.9 mm			
Fiber length		1.5±0.1 m			

## Ordering Information

For more information on this or other products and their availability, please contact your local Lumentum Uniphase account manager or Lumentum Uniphase directly at [customer.service@lumentum.com](mailto:customer.service@lumentum.com).

FWS-  00

Code	Wavelength
D1	Pass 1510/Reflect 1550 (for 1510/1550nm)
D2	Pass 1550/Reflect 1510 (for 1510/1550nm)
E1	Pass 1625/Reflect 1550 (for 1550/1625nm)
E2	Pass 1550/Reflect 1625 (for 1550/1625nm)

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Code	Fiber Type
1	250 $\mu$ m fiber
2	900 $\mu$ m fiber



Code	Connector <sup>1,2</sup>
0	No connector
1	FC/SPC
2	FC/APC
3	SC/SPC
4	SC/APC
5	ST
6	LC/SPC

1. Connectors available only with 900  $\mu$ m fiber option.
2. Other connectors available upon request.

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