

# 1480/1550+1590 nm Filter Wavelength Division Multiplexers



Lumentum 1480/1550+1590 nm filter wavelength division multiplexers (WDMs) use interference filter technology to separate or combine pump laser and optical signals.

With wide bandwidth, low insertion, high isolation, and low temperature dependent loss, they are ideal for use in optical amplifier and CATV applications.

**Key Features**

- Thin film filter based
- Wide bandwidth (C+L)
- Low insertion loss
- High isolation
- Low temperature dependent loss
- Epoxy-free optical path

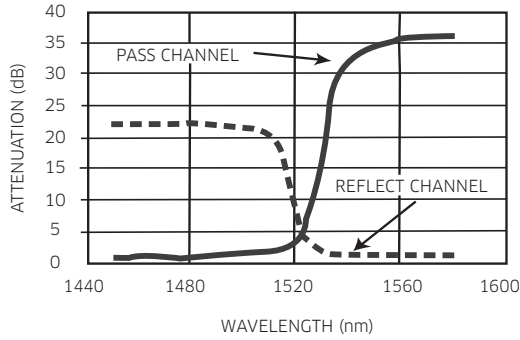
**Applications**

- Optical amplifiers
- CATV

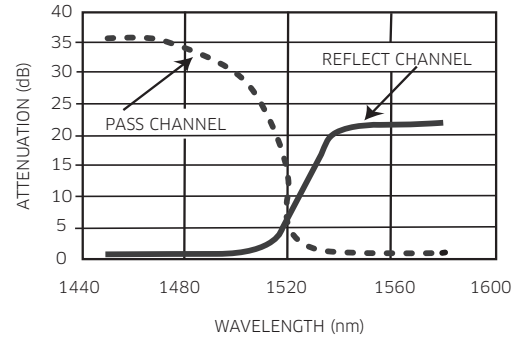
**Compliance**

- Telcordia GR-1221

Performance 1480/1550 nm (Model 1)



Performance 1480/1550 nm (Model 2)



Specifications

Parameter		Pass 1480 / Reflect 1550+1590	Pass 1550+1590 / Reflect 1480
Pass port (C↔P) wavelength range $\lambda_P$		1450 to 1495 nm	1528 to 1610 nm
Pass port (C↔P) insertion loss	Maximum		0.4 dB
Pass port (C↔P) flatness	Maximum		0.2 dB
Pass port (C↔P) isolation at $\lambda_R$	Minimum		30 dB
Reflect port (C↔R) wavelength range $\lambda_R$		1528 to 1610 nm	1450 to 1495 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		15 dB
Directivity	Minimum		55 dB
Optical return loss	Minimum		50 dB
Polarization dependent loss	Maximum		0.04 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 $\mu\text{m}$ fiber			5.5 x 35.5 mm
900 $\mu\text{m}$ 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 account manager or Lumentum directly at [customer.service@lumentum.com](mailto:customer.service@lumentum.com).

FWS  A  00

Code	Wavelength
A	1480/1550+1590 nm

Code	Model
1	Pass 1480/reflect 1550+1590
2	Pass 1550+1590 / reflect 1480

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

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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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North America  
Toll Free: 844 810 LITE (5483)

Outside North America  
Toll Free: 800 000 LITE (5483)

China  
Toll Free: 400 120 LITE (5483)

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