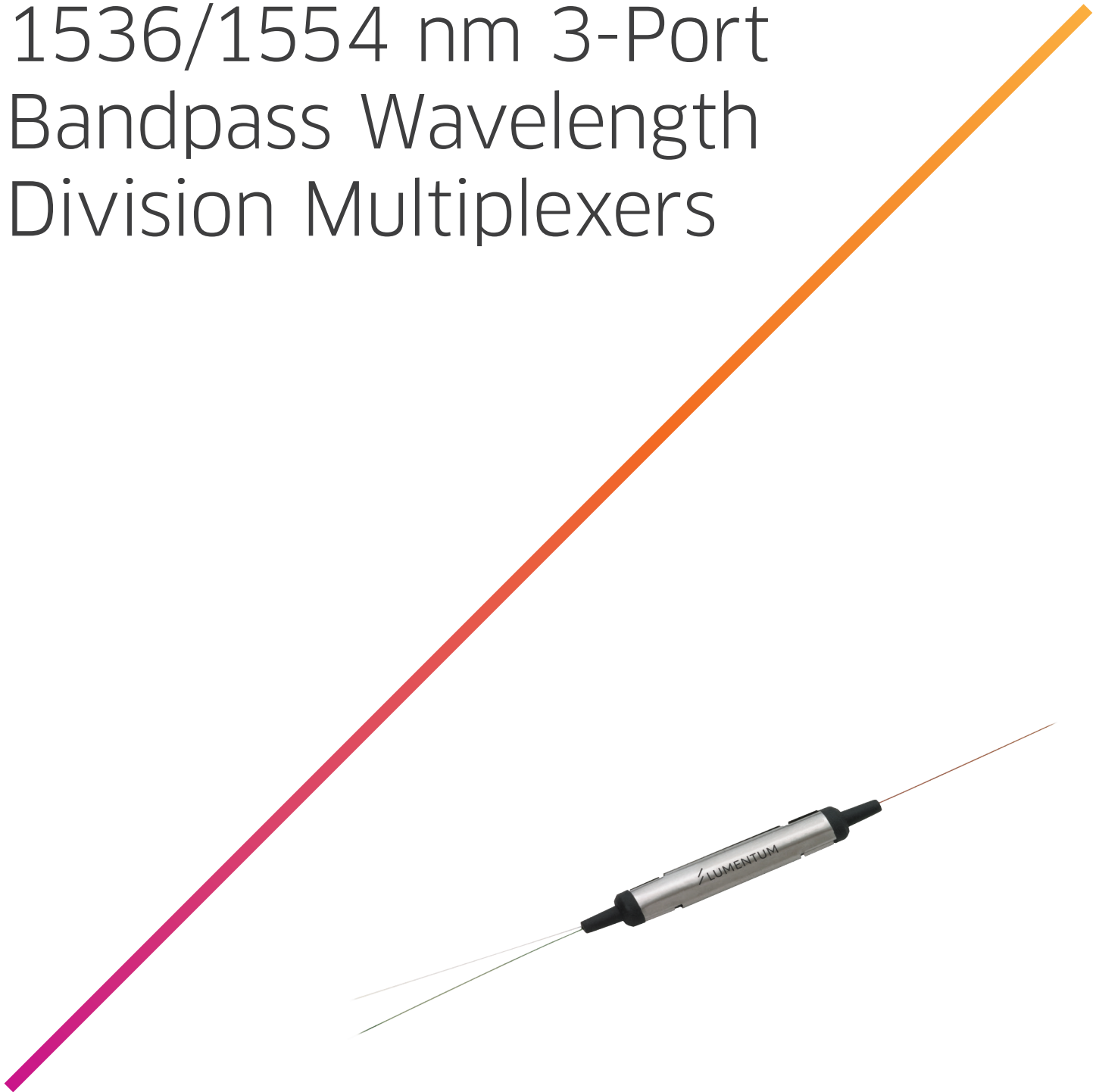


1536/1554 nm 3-Port Bandpass Wavelength Division Multiplexers



Lumentum 1536/1554 nm filter wavelength division multiplexers (WDMs) use interference filter technology to separate and combine optical transmission signals.

Highly stable and reliable, these WDMs have high channel isolation, low insertion loss, low temperature dependent loss, and low polarization dependent loss.

Key Features

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

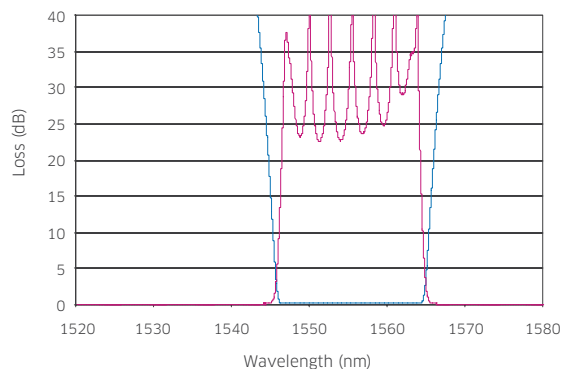
Applications

- Red and blue band separators
- Erbium doped fiber amplifiers (EDFAs)

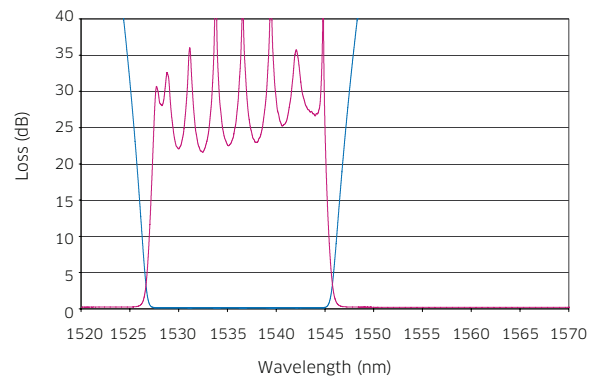
Compliance

- Telcordia GR-1221

Red Band



Blue Band



Specifications

Parameter		Pass 1536/Reflect 1554	Pass 1554/Reflect 1536
Pass port (C↔P) wavelength range λ_P		1529.30 to 1542.39 nm	1547.46 to 1560.86 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 λ_R	Minimum	20 dB	
Reflect port (C↔R) wavelength range λ_R		1547.46 to 1560.86 nm	1529.30 to 1542.39 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 λ_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 μ m fiber		5.5 × 35.5 mm	
900 μ m fiber		5.5 × 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.

FWS		0S3		00	
Code	Wavelength	Code	Fiber Type	Code	Connector ^{1,2}
36	Pass 1536/reflect 1554	1	250 μm fiber	0	No connector
54	Pass 1554/reflect 1536	2	900 μm fiber	1	FC/SPC
				2	FC/APC
				3	SC/SPC
				4	SC/APC
				5	ST
				6	LC/SPC

1. Connectors available only with 900 μm fiber option.

2. Other connectors available upon request.

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North America
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