

1536/1554 nm 3-Port Bandpass Wavelength Division Multiplexers



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)

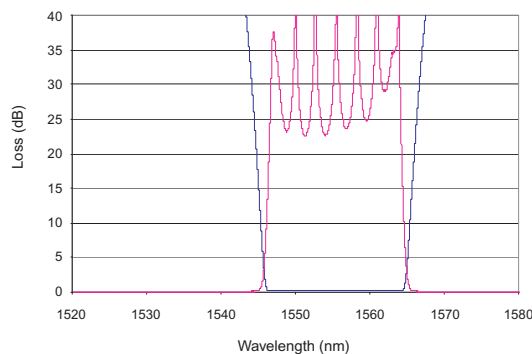
JDSU 1536/1554 nm filter wavelength division multiplexers (WDMs) use interference filter technology to separate and combine optical transmission signals.

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

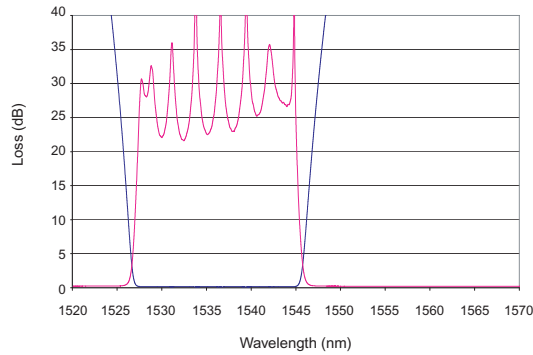
Compliance

- 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 x 30 mm (Standard), 3.2 x 30 mm (Miniature)	
900 μ m fiber	5.5 x 40 mm (Standard), 3.2 x 40 mm (Miniature)	
Fiber length	>1.0 m	

