

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)

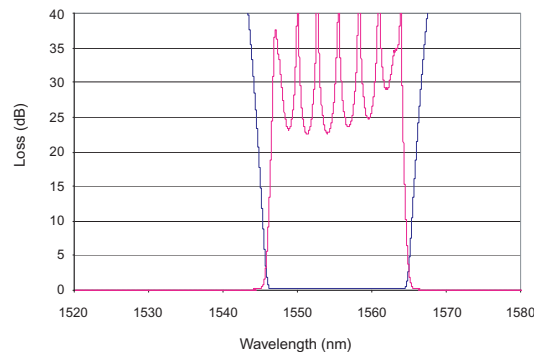
JDSU 1536/1554 nm filter wavelength division multiplexers (WDMs) use interference filter technology to separate and combine optical transmission signals.

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

Compliance

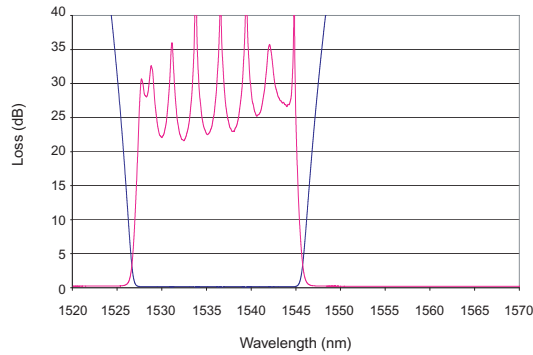
- Telcordia GR-1221

Red Band



2

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 | |

Ordering Information

For more information on this or other products and their availability, please contact your local JDSU account manager or JDSU directly at 1-800-498-JDSU (5378) in North America and +800-5378-JDSU worldwide or via e-mail at customer.service@jdsu.com.

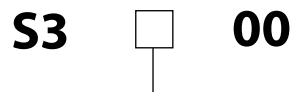
Sample: FWS-360S31000



| Code | Wavelength |
|------|------------------------|
| 36 | Pass 1536/reflect 1554 |
| 54 | Pass 1554/reflect 1536 |



| Code | Package |
|------|-----------|
| 0 | Standard |
| 1 | Miniature |



| Code | Fiber Type |
|------|-------------------|
| 1 | 250 μ m fiber |
| 2 | 900 μ m fiber |



| Code | Connector ^{1,2} |
|------|--------------------------|
| 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 μ m fiber option.
2. Other connectors available upon request.