

1480/1550+1590 nm Filter Wavelength Division Multiplexers



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

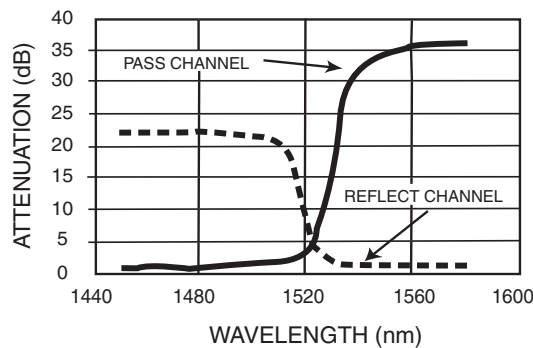
JDSU 1480/1550+1590 nm filter wavelength division multiplexers (WDMs) use interference filter technology to separate or combine pump laser and optical signals.

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

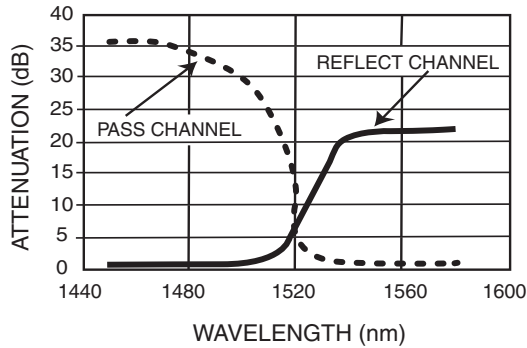
Compliance

- 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 λ_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 λ_R	Minimum	30 dB
Reflect port (C↔R) wavelength range λ_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 λ_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 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-A00110000

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 μm fiber
2	900 μm fiber

Code	Package
0	Standard
1	Miniature

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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 μm fiber option.
2. Other connectors available upon request.