



# 1510/1550nm Filter Wavelength Division Multiplexer

Nanovation's 1510/1550nm Filter Wavelength Division Multiplexer is specially designed for multiplexing or demultiplexing the 1550nm signal and 1510nm supervisory signal. Using dielectric thin film technology, it offers low insertion loss, excellent channel isolation, wide band flatness and high environmental stability.

## Features

- Wide bandwidth
- Low insertion loss
- High channel isolation
- Epoxy-free optical path
- High environmental stability



## Applications

- Supervisory channel of DWDM systems
- Active fiber monitoring

## Optical Parameters

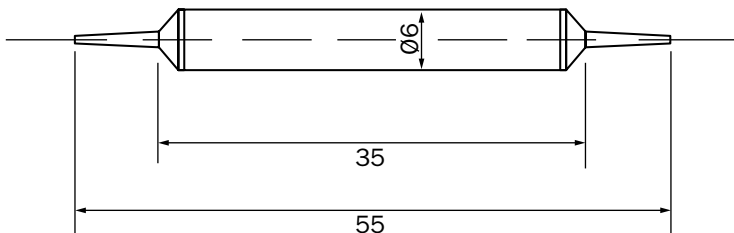
Pass Channel Wavelength Range (nm)	1500 to 1520
Reflection Channel Wavelength Range (nm)	1532 to 1562
Insertion Loss to Pass Channel (dB)	$\leq 0.8$ ( $\leq 1.2$ )
Insertion Loss to Reflection Channel (dB)	$\leq 0.7$
Isolation of Pass Channel to Reflection Channel (dB)	$\geq 25$ ( $\geq 40$ )
Isolation of Reflection Channel to Pass Channel (dB)	$\geq 12$
Insertion Loss Variation (dB)	$\leq 0.8$
Wavelength Thermal Stability (nm/°C)	$\leq 0.003$
Insertion Loss Thermal Stability (dB/°C)	$\leq 0.007$
Directivity (dB)	$\geq 60$
Return Loss (dB)	$\geq 45$
Operating Temperature (°C)	0 to 55
Storage Temperature (°C)	-40 to +85
Package Dimensions (mm <sup>3</sup> )	6 x 55



# 1510/1550nm Filter Wavelength Division Multiplexer

## Mechanical Packaging Diagram (mm)

(All dimensions are in mm; drawings are not to scale.)



## Ordering Information

WDM151 - X - X X X

	Connector Type
0:	No connector
1:	FC/UPC (standard)
2:	FC/APC
3:	SC/UPC
4:	SC/APC
	Pigtail Fiber Length
0:	Standard length = 1 m (standard)
1:	User specify
	Fiber Type
0:	Standard single-mode (standard)
1:	User specify
	Pass/Drop
P:	Pass 1510nm
D:	Drop 1510nm

### To order or for additional information, please contact us at:

Phone: 1-877-919-6266  
 Fax: 1-734-354-0934  
 Web: [www.nanovation.com](http://www.nanovation.com)

All data listed in this specification sheet is subjected to change without notice.  
 Nanovation reserves the right to revise or update the data sheet.  
 Copyright 2001 by Nanovation Technologies.