

## 1310/1550 Wavelength Division Multiplexer (WDM) Dual Line Filter



### Key Features

- Low insertion loss
- 50 dB high Isolation
- Extended operating temperature range suitable for uncontrolled environment
- Exceptional reliability and environmental stability
- Excellent temperature stability
- Supports unidirectional and bidirectional operations

### Applications

- Add/drop node in metro network
- Supervisory application

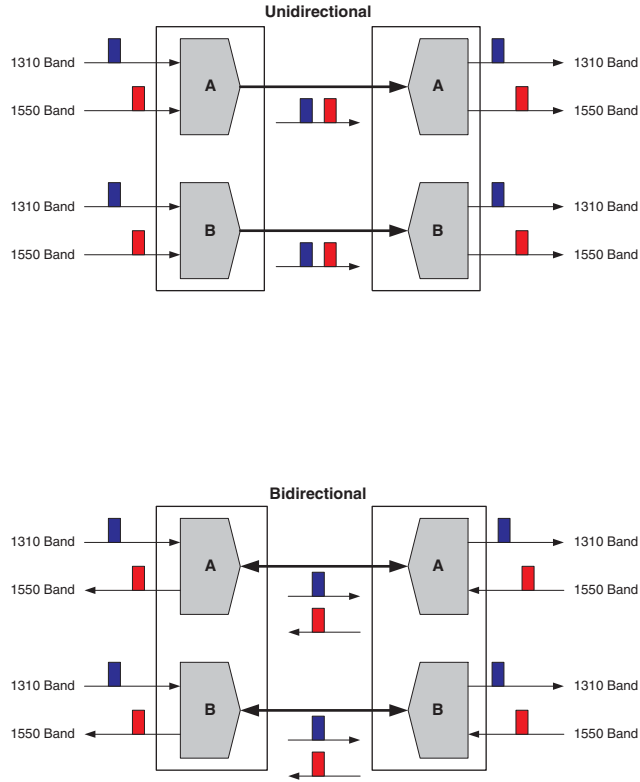
The JDSU dual 1310/1550 band WDM module, based on thin-film filter (TFF) technology, provides extremely high performance. With low insertion loss, low polarization sensitivity, and high temperature stability, this module is well suited to WDM network applications. With very high isolation, the module supports both bidirectional and unidirectional transportations. And with an extended operating temperature range and high reliability, it can be deployed in uncontrolled environments, away from the central office.

Using the dual 1310/1550 WDM module, new systems on CWDM or DWDM bands can be combined with legacy systems on a 1310 nm band without disruption. Additionally, the module can be used to mux or demux supervisory channel (1310nm).

Easily customizable, the dual 1310/1550 WDM module can be configured from a standard list of packaging and connector options.

## 2

### Functional Diagram



### Specifications

Parameter	Specification	
1310 passband	Minimum	1260 – 1360 nm
1550 passband	Minimum	1480 – 1620 nm
Insertion loss <sup>1</sup>		
1310 to Common	Maximum	1.2 dB
1550 to Common	Maximum	1.2 dB
Channel isolation	Minimum	50 dB
Polarization dependent loss	Maximum	0.1 dB
Return loss	Minimum	45 dB
Directivity	Minimum	50 dB
Optical power	Maximum	500 mW
Operating temperature range		-40 – 85°C
Storage temperature range		-40 – 85°C
Operating humidity		5 – 85%

1. Including connectors' loss.

**Channel Plan**
**Channel**
**Description**

1	A_COM
2	A_1310
3	A_1550
4	B_COM
5	B_1310
6	B_1550

**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](mailto:customer.service@jdsu.com).

**Sample: WDM-D1315001**

# WDM-D131500

Code	Packaging	Code	Connector Type
0	LGX <sup>1</sup>	1	SC/UPC
1	1U 19-inch rack <sup>1</sup>	2	SC/APC
2	1U 23-inch rack <sup>1</sup>	3	Duplex LC/UPC
		4	Duplex LC/APC
		5	LC/UPC
		6	LC/APC

1. Detailed package drawings are available upon request.