Bandsplitters 100 GHz Channel Spacing

Key Features

- Low insertion loss
- Flat and wide passband
- High isolation
- Low chromatic dispersion

JDSU ITU bandsplitters are the result of years of telecommunications experience in interference filter technology. Manufactured using laser welding technology, they conveniently split ITU channel spacings of 200, 100 and 50 GHz into manageable channel bands.

These highly reliable components demonstrate low loss, temperature insensitivity, and reliable performance in any system application. They are designed to exceed the requirements of Telcordia GR-1221.

Used within mux/demux and add/drop applications, JDSU bandsplitters manage multiple ITU channels. Narrow transitions from the passed band to the block band minimize lost channels while maintaining high spectral efficiency. Integrated with other available technologies, such as ITU channel filters, fiber Bragg gratings, and arrayed waveguides, JDSU bandsplitters offer complete dense wavelength division multiplexing (DWDM) solutions.

Established volume capability and proven experience in customizing fiber optic components and modules make JDSU the supplier of choice for these and other DWDM products.

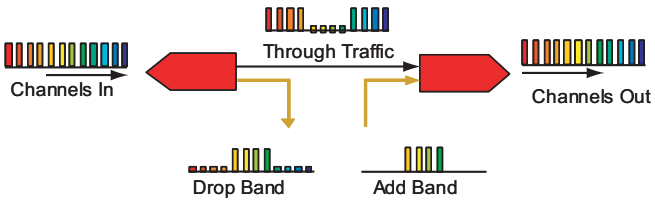
Applications

- Long haul networks
- Metro networks
- Ring architectures
- Add/drop sites

Compliance

- Telcordia GR-1221

Add/Drop Module



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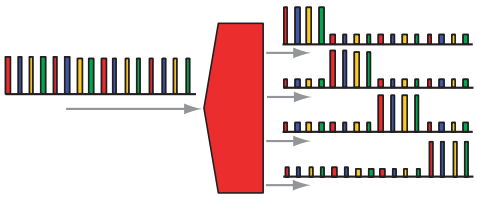
Mux/Demux Module



Specifications

Parameter		4 Skip 0	4 Skip 1	5 Skip 1	8 Skip 2	10 Skip 3	20 Skip 4
Passband width	Minimum	±162.5 GHz	±165 GHz	±213 GHz	±387.5 GHz	±487.5 GHz	±987.5 GHz
Passband ripple	Maximum	0.3 dB	0.2 dB	0.2 dB	0.25 dB	0.35 dB	0.2 dB
Insertion loss (transmission)	Maximum	1.2 dB	0.9 dB	0.8 dB	0.8 dB	1.0 dB	1.0 dB
Insertion loss (reflection)	Maximum	0.6 dB	0.5 dB	0.4 dB	0.4 dB	0.5 dB	0.6 dB
Isolation (adjacent band)	Minimum	25 dB	25 dB	25 dB	20 dB	37 dB	25 dB
Isolation (reflection)	Minimum	12 dB	15 dB	15 dB	15 dB	12 dB	15 dB
Directivity	Minimum	50 dB	50 dB	50 dB	50 dB	50 dB	50 dB
Return loss	Minimum	45 dB	45 dB	45 dB	45 dB	45 dB	45 dB
Polarization dependent loss	Maximum	0.2 dB	0.1 dB	0.1 dB	0.1 dB	0.15 dB	0.15 dB
Polarization mode dispersion	Maximum	0.7 ps	0.1 ps	0.1 ps	0.1 ps	0.2 ps	0.15 ps
Chromatic dispersion (Tx)	Maximum	±50 ps/nm	±10 ps/nm	±5 ps/nm	±5 ps/nm	±20 ps/nm	±3 ps/nm
Chromatic dispersion (Rx)	Maximum	±30 ps/nm	±10 ps/nm	±5 ps/nm	±5 ps/nm	±20 ps/nm	±2 ps/nm
Operating temperature		0 to 70 °C					
Storage temperature		-40 to 85 °C					
Fiber type		SMF-28 with 250 µm					
Fiber length		1.5±0.1 m					
Package dimensions (Ø x L)		5.5 x 35.4 mm					

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: DWBW3F4S11354

DWBW □

Code	Model
2	2 port device
3	3 port device

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Code	Number of Channels Passed/Skipped
4S0	4 skip 0
4S1	4 skip 1
5S1	5 skip 1
8S2	8 skip 2
TS3	10 skip 3
WS4	20 skip 4

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Code	Center Channel Frequency
Standard grids available. Please contact JDSU to determine what is available for the type of filter required.	