

Fused WDM, 1310/1550 nm



Key Features

- Low insertion loss
- High power handling
- Wide range of regular parts available "to go"
- Proven reliability

Applications

- 1310/1550 nm simultaneous operation on a single fiber
- CATV systems
- Fiber to the home/curb/business
- Passive Optical Networks

Compliance

- Telcordia GR-1221

The fused WDM, 1310/1550 nm enables the multiplexing and demultiplexing of two wavelength regions with high isolation and low insertion loss. These components are manufactured with a highly automated process to achieve consistent quality and reliability.

Regular parts are available with a wide variety of housing and connector options and can therefore be readily specified in a wide variety of applications, enabling rapid design cycles and new project builds. Reliability is assured through qualification to Telcordia GR-1221.

2

Specifications

Parameter		Grade 1	Grade 2
Operating wavelength range			
1310 nm band			1290 to 1330 nm
1550 nm band			1530 to 1570 nm
Insertion loss	Maximum	0.4 dB	0.6 dB
Isolation	Minimum	16 dB	15 dB
Polarization dependent loss	Maximum	0.1 dB	0.15 dB
Optical return loss	Minimum		50 dB
Directivity	Minimum		60 dB
Operating temperature range			-40 to 85 °C
Storage temperature range			-50 to 85 °C
Package dimensions			
S package (D x L)			3.0 x 54 mm
L package (D x L)			3.0 x 70 mm
H package (L x W x H)			85 x 17 x 7.0 mm

3

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: FFW-4CS111110

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<table><tr><th>Code</th><th>Passband Wavelength 1</th></tr><tr><td>4</td><td>1310±20 nm</td></tr></table>	Code	Passband Wavelength 1	4	1310±20 nm	<table><tr><th>Code</th><th>Passband Wavelength 2</th></tr><tr><td>C</td><td>1550±20 nm</td></tr></table>	Code	Passband Wavelength 2	C	1550±20 nm	<table><tr><th>Code</th><th>Housing</th></tr><tr><td>H</td><td>Ø 3.0 mm cable</td></tr><tr><td>L</td><td>Ø 900 µm fiber</td></tr><tr><td>S</td><td>Ø 250 µm fiber</td></tr></table>	Code	Housing	H	Ø 3.0 mm cable	L	Ø 900 µm fiber	S	Ø 250 µm fiber	<table><tr><th>Code</th><th>Configuration</th></tr><tr><td>1</td><td>1x2</td></tr><tr><td>2</td><td>2x2</td></tr></table>	Code	Configuration	1	1x2	2	2x2	<table><tr><th>Code</th><th>Grade</th></tr><tr><td>1</td><td>Grade 1</td></tr><tr><td>2</td><td>Grade 2</td></tr></table>	Code	Grade	1	Grade 1	2	Grade 2	<table><tr><th>Code</th><th>Bandwidth</th></tr><tr><td>1</td><td>Standard WDM</td></tr></table>	Code	Bandwidth	1	Standard WDM	<table><tr><th>Code</th><th>Fiber Type</th></tr><tr><td>1</td><td>Corning SMF-28</td></tr></table>	Code	Fiber Type	1	Corning SMF-28	<table><tr><th>Code</th><th>Pigtail Length</th></tr><tr><td>0</td><td>0.5 meter</td></tr><tr><td>1</td><td>1 meter</td></tr><tr><td>2</td><td>2 meters</td></tr><tr><td>3</td><td>3 meters</td></tr><tr><td>4</td><td>4 meters</td></tr><tr><td>5</td><td>5 meters</td></tr><tr><td>6</td><td>6 meters</td></tr><tr><td>7</td><td>7 meters</td></tr><tr><td>8</td><td>8 meters</td></tr><tr><td>9</td><td>9 meters</td></tr><tr><td>A</td><td>10 meters</td></tr></table>	Code	Pigtail Length	0	0.5 meter	1	1 meter	2	2 meters	3	3 meters	4	4 meters	5	5 meters	6	6 meters	7	7 meters	8	8 meters	9	9 meters	A	10 meters	<table><tr><th>Code</th><th>Connectors</th></tr><tr><td>0</td><td>NONE</td></tr><tr><td>1</td><td>FC/PC</td></tr><tr><td>2</td><td>FC/SPC</td></tr><tr><td>3</td><td>FC/APC</td></tr><tr><td>4</td><td>SC/SPC</td></tr><tr><td>5</td><td>SC/APC</td></tr><tr><td>6</td><td>BICONIC</td></tr><tr><td>7</td><td>D4</td></tr><tr><td>8</td><td>ST</td></tr><tr><td>9</td><td>FC/UPC</td></tr><tr><td>A</td><td>SC/UPC</td></tr><tr><td>B</td><td>LC</td></tr><tr><td>C</td><td>MU</td></tr></table>	Code	Connectors	0	NONE	1	FC/PC	2	FC/SPC	3	FC/APC	4	SC/SPC	5	SC/APC	6	BICONIC	7	D4	8	ST	9	FC/UPC	A	SC/UPC	B	LC	C	MU
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