

Product Bulletin



WD1515 A2/D2 200 GHz Spacing ITU-Channel Add/Drop WDM Couplers

The WD1515 A2/D2 add/drop filter couplers are designed for Dense WDM network drop-and-insert applications. The minimum channel spacing is 200 GHz and the channels are centered on the 100 GHz ITU wavelength grid. As many as 50 ITU wavelengths within the erbium doped fiber amplifier gain band are available.

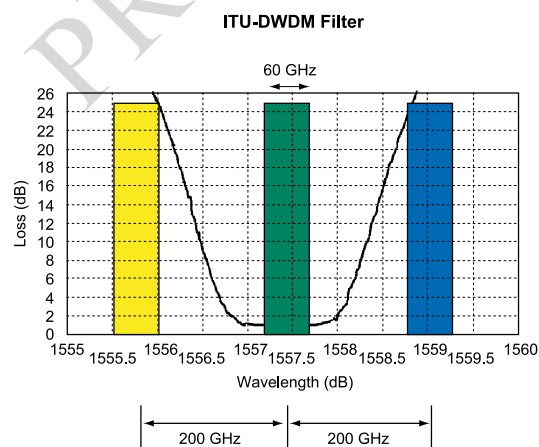
Key Features

- 200 GHz channel spacing
- 50 ITU wavelengths
- Wide channel width
- Low insertion loss
- Low channel crosstalk

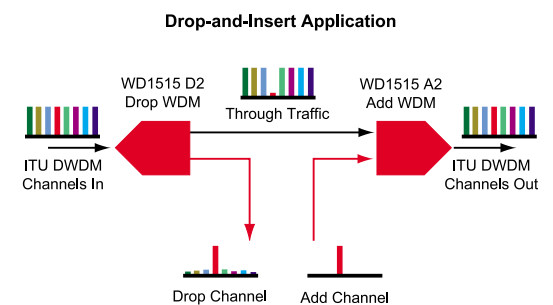
Applications

- DWDM networks
- Drop-and-insert
- Wavelength routing

Performance



Configuration



Specifications¹

Parameter		WD1515 A2 (Add)	WD1515 D2 (Drop)
Channel wavelength		$\lambda_i \pm 30$ GHz	$\lambda_i \pm 30$ GHz
Minimum channel spacing		200 GHz	200 GHz
Insertion loss	add/drop path	<1.8 dB	<1.8 dB
	through path	<0.6 dB	<0.6 dB
Crosstalk (adjacent channel)	add/drop path	N/A	<-22 dB
	through path	<-10 dB	<-10 dB
Crosstalk (other channels)	add/drop path	N/A	<-30 dB
	through path	N/A	N/A
Directivity		>65 dB	>65 dB
Return loss		>45 dB	>45 dB
Optical power		20 dBm	20 dBm
Polarization sensitivity		<0.15 dB	<0.15 dB
Polarization mode dispersion		<0.1 ps	<0.1 ps
Fiber		SMF-28	SMF-28
Connectors		none	none
Fiber coating diameter		250 μ m	250 μ m
Dimensions (W x Hx D)		5.6 x 5.6 x 38.1 mm	5.6 x 5.6 x 38.1 mm
		8.9 x 8.9 x 45.7 mm	8.9 x 8.9 x 45.7 mm
Operating temperature		0 to 50 $^{\circ}$ C	0 to 50 $^{\circ}$ C

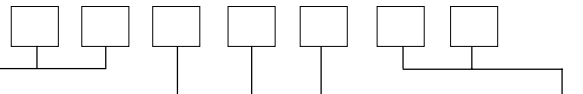
1. These specifications are the minimum case in the band over all polarization states and operating temperature range.

Ordering information²

Indicate your requirements by selecting one option from each configuration table. Please print the corresponding codes in the available boxes to form your part number. For more information on this or other products and their availability, please contact your local JDS Uniphase sales representative or JDS Uniphase directly at 613 727-1303, or by fax 613 727-8284, or via email at sales@ca.jdsunph.com, or visit our Web site at www.jdsunph.com.

Sample: **WD15AD2+151SEQNC**

WD15AD2+1



Add/Drop Wavelength					
Code	Frequency (THz)	Wavelength (nm)	Code	Frequency (THz)	Wavelength (nm)
60	196.0	1529.55	39	193.9	1546.12
59	195.9	1530.33	38	193.8	1546.92
58	195.8	1531.12	37	193.7	1547.72
57	195.7	1531.90	36	193.6	1548.51
56	195.6	1532.68	35	193.5	1549.32
55	195.5	1533.47	34	193.4	1550.12
54	195.4	1534.25	33	193.3	1550.92
53	195.3	1535.04	32	193.2	1551.72
52	195.2	1535.82	31	193.1	1552.52
51	195.1	1536.61	30	193.0	1553.33
50	195.0	1537.40	29	192.9	1554.13
49	194.9	1538.19	28	192.8	1554.94
48	194.8	1538.98	27	192.7	1555.75
47	194.7	1539.77	26	192.6	1556.55
46	194.6	1540.56	25	192.5	1557.36
45	194.5	1541.35	24	192.4	1558.17
44	194.4	1542.14	23	192.3	1558.98
43	194.3	1542.94	22	192.2	1559.79
42	194.2	1543.73	21	192.1	1560.61
41	194.1	1544.53	20	192.0	1561.42
40	194.0	1545.32			

Code	Isolation
5	Standard isolation
1	High isolation

Code	Connector Type
NC	No connector
FP	FC/HPC
FA	FC/APC
SC	SC/HPC
SU	SC/APC
SP	ST/HPC

Code	Pigtail Type
Q	900 μ m Buffered Fiber

Code	Packaging
E	89.0 x 8.9 x 50 mm (Standard isolation, 900 μ m buffer only)
F	70.0 x 130.9 x 12.9 mm (High isolation, 900 μ m buffer only)

2. Additional options not listed on the configuration tables may be available. Please contact JDS Uniphase representative regarding custom inquiries.

SMF-28 is a registered trademark of Corning Incorporated.



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