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DWDM MUX/DMUX device  
**S>DWDM-1xN-xxxx**

### Product Description

- Flexible Thin-Film-Filter design for truly passive operation — no power supply needed
- Customizeable Channel Plan
- C-Band 100GHz ITU-T grid
- Up to 32 wavelength
- Single or dual-fiber operation

### Optical Specification

Parameters	Notes	Specifications		Units
		Min	Max	
Channels		2	32	Ch
Channel Spacing		100		GHz
Reference Pass-band	Relative to ITU Grid	± 0.1		nm
ITU Frequency	On ITU grid in C-band	195.90	192.00	THz
ITU Wavelength	On ITU grid in C-band	1530.334	1561.419	nm
Center Frequency Accuracy	Maximum of the absolute deviation of the 3 dB center wavelength from ITU grid over all channels	-0.05	+0.05	nm
Insertion Loss	Maximum of the insertion loss across the ITU pass-band over all channels. For 1x2 channel:	0.5	1.0	dB
	For 1x4 channel:	0.5	2.5	
	For 1x8 channel:	0.5	3.0	
	For 1x16 channel:	0.5	4.5	
	For 1x32 channel:	0.5	5.5	
Ripple	Maximum of the loss variance across the ITU pass-band over all channels		0.75	dB
1dB Bandwidth	1dB from min Insertion Loss, full width, average polarization	0.36		nm
3dB Bandwidth	3 dB from min Insertion Loss, full width, average polarization	0.51		nm
Adjacent Channel Isolation	Ratio of peak transmission to the maximum transmission over both adjacent pass-bands	25		dB
Non-Adjacent Channel Isolation	Ratio of peak transmission in channel pass-bands to maximum transmission over all non-adjacent pass-bands	30		dB
Total Crosstalk	Ratio of power in channel to power in all other pass-bands	21		dB
Polarization Dependent Loss	Maximum ratio of transmissions over all polarization states, over the ITU pass-band		0.5	dB
Return Loss		40		dB
Polarization Mode Delay (PMD)	In Reference Passband over all channels		0.5	ps
Chromatic Dispersion	In Reference Passband over all channels	-20	20	ps/nm

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**Channel plan**

No.	ITU Wavelength (nm)	ITU Frequency (THz)	Demux Faceplate Label	Mux Faceplate Label
1	1528.77	196.1	D61	M61
2	1529.55	196.0	D60	M60
3	1530.33	195.9	D59	M59
4	1531.12	195.8	D58	M58
5	1531.9	195.7	D57	M57
6	1532.68	195.6	D56	M56
7	1533.47	195.5	D55	M55
8	1534.25	195.4	D54	M54
9	1535.04	195.3	D53	M53
10	1535.82	195.2	D52	M52
11	1536.61	195.1	D51	M51
12	1537.4	195.0	D50	M50
13	1538.19	194.9	D49	M49
14	1538.98	194.8	D48	M48
15	1539.77	194.7	D47	M47
16	1540.56	194.6	D46	M46
17	1541.35	194.5	D45	M45
18	1542.14	194.4	D44	M44
19	1542.94	194.3	D43	M43
20	1543.73	194.2	D42	M42
21	1544.53	194.1	D41	M41
22	1545.32	194.0	D40	M40
23	1546.12	193.9	D39	M39
24	1546.92	193.8	D38	M38
25	1547.72	193.7	D37	M37
26	1548.51	193.6	D36	M36
27	1549.32	193.5	D35	M35
28	1550.12	193.4	D34	M34
29	1550.92	193.3	D33	M33
30	1551.72	193.2	D32	M32
31	1552.52	193.1	D31	M31
32	1553.33	193.0	D30	M30
33	1554.13	192.9	D29	M29
34	1554.94	192.8	D28	M28
35	1555.75	192.7	D27	M27
36	1556.55	192.6	D26	M26
37	1557.36	192.5	D25	M25
38	1558.17	192.4	D24	M24
39	1558.98	192.3	D23	M23
40	1559.79	192.2	D22	M22
41	1560.61	192.1	D21	M21
42	1561.42	192.0	D20	M20
43	1562.23	191.9	D19	M19

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No.	ITU Wavelength (nm)	ITU Frequency (THz)	Demux Faceplate Label	Mux Faceplate Label
44	1563.05	191.8	D18	M18
45	1563.86	191.7	D17	M17
46	1564.68	191.6	D16	M16
47	1565.5	191.5	D15	M15
48	1566.31	191.4	D14	M14

### **Absolute Maximum Ratings**

NO	PARAMETER	SPECIFICATION	UNITS	NOTE
3.1	Operation Temperature	-5~+65	°C	
3.2	Storage Temperature	-40~+85	°C	

### **Ordering information**

Part Number	Product Description
S>DWDM-1x2U-PS-Cxxxx-LC/UPC	DWDM MUX 1x2+Upgrade port, plastic box, channels xxxxx, LC/UPC
S>DWDM-1x4U-PS-Cxxxx-LC/UPC	DWDM MUX 1x4+Upgrade port, plastic box, channels xxxxx, LC/UPC
S>DWDM-1x8U-PS-Cxxxx-LC/UPC	DWDM MUX 1x8+Upgrade port, plastic box, channels xxxxx, LC/UPC
S>DWDM-1x16U-PS-Cxxxx-LC/UPC	DWDM MUX 1x16+Upgrade port, plastic box, channels xxxxx, LC/UPC
S>DWDM-1x32U-PS-Cxxxx-LC/UPC	DWDM MUX 1x32+Upgrade port, plastic box, channels xxxxx, LC/UPC

\* Customized products can be developed upon special request.

For additional information please contact: [info@strela-expert.ru](mailto:info@strela-expert.ru).