

# 0602 DWDM 100 G

**W11XX-S**



## 100 GHz Spacing DWDM Filters (ITU Grid, 0.8 nm)

The DWDM is designed for long-haul transmission where wavelengths are packed tightly together. The 100 GHz spacing DWDM filters allow system designers optimal configuration flexibility. They feature low insertion loss, high channel isolation, and excellent environmental stability and reliability. They can be used for channel add/drop, DWDM network, wavelength routing and fiber optic filter.

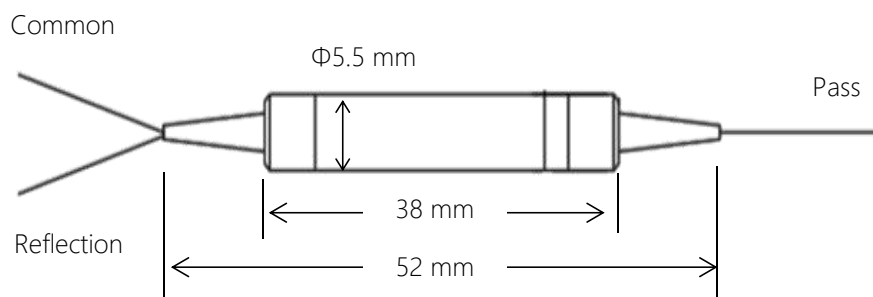
### FEATURES

- 0.8 nm Channel Spacing
- Wide Pass Band
- High Channel Isolation
- High Stability and Reliability
- Low Insertion Loss

### USE IN

- HFC Fiberoptic System
- Channel Add/Drop
- Wavelength Routing
- Fiber Optic Amplifier
- DWDM Network

### MECHANICAL DIAGRAM



### ORDERING OPTIONS

W11XX-S

XX: Channel Number  
01, 02,... 65

Example

01=W1101-S 1577.03 nm  
02=W1102-S 1576.20 nm

...  
65=W1165-S 1525.66 nm

**Order notes to our customers:** The default parameters are as follows. For special needs, please contact sales.  
**1) Connector FC/APC, 900 um, 1 m by default for all devices except for high power devices.**  
**2) Slow axis working, fast axis blocked, connector key is aligned to slow axis by default for PM devices.**

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Channel Center Wavelength	ITU Grid 100 GHz 0.8 nm	
Operating Wavelength Range	1525.66(CH65) to 1577.03(CH01) nm	
Channel Passband (@-0.5 dB Bandwidth)	0.22 nm min.	
Pass Channel Insertion Loss	1.0 dB max.	
Reflection Channel Insertion Loss	0.4 dB max.	
Return Loss	45 dB min.	
Directivity	45 dB min.	
Wavelength Temperature Shifting	0.001 nm/°C max.	
Isolation Pass Channel	30 dB min.	
Isolation Reflect Channel	13 dB min.	
Insertion Loss Temperature Sensitivity	0.3 dB max.	
Polarization Mode Dispersion	0.1 ps max.	
Polarization Dependent Loss	0.1 dB min.	
Power Handling	300 mW max.	
Operating Temperature	-10°C to +70°C	
Storage Temperature	-40°C to +85°C	
Dimension	For 250 μm, 900 μm	5.5x5.5x38 mm
	For 2.0 mm, 3.0 mm	90x20x10 mm

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## Selection Guide (Channel 01-65)

ITU Grid	Channel	Frequency	Part No.
01	1577.03 nm	190.1 THz	W1101-S
02	1576.20 nm	190.2 THz	W1102-S
03	1575.37 nm	190.3 THz	W1103-S
04	1574.54 nm	190.4 THz	W1104-S
05	1573.71 nm	190.5 THz	W1105-S
06	1572.89 nm	190.6 THz	W1106-S
07	1572.06 nm	190.7 THz	W1107-S
08	1571.24 nm	190.8 THz	W1108-S
09	1570.42 nm	190.9 THz	W1109-S
10	1569.59 nm	191.0 THz	W1110-S
11	1568.77 nm	191.1 THz	W1111-S
12	1567.95 nm	191.2 THz	W1112-S
13	1567.13 nm	191.3 THz	W1113-S
14	1566.31 nm	191.4 THz	W1114-S
15	1565.50 nm	191.5 THz	W1115-S
16	1564.68 nm	191.6 THz	W1116-S
17	1563.86 nm	191.7 THz	W1117-S
18	1563.05 nm	191.8 THz	W1118-S
19	1562.23 nm	191.9 THz	W1119-S
20	1561.42 nm	192.0 THz	W1120-S
21	1560.61 nm	192.1 THz	W1121-S
22	1559.79 nm	192.2 THz	W1122-S
23	1558.98 nm	192.3 THz	W1123-S
24	1558.17 nm	192.4 THz	W1124-S
25	1557.36 nm	192.5 THz	W1125-S
26	1556.55 nm	192.6 THz	W1126-S
27	1555.75 nm	192.7 THz	W1127-S
28	1554.94 nm	192.8 THz	W1128-S
29	1554.13 nm	192.9 THz	W1129-S
30	1553.33 nm	193.0 THz	W1130-S
31	1552.52 nm	193.1 THz	W1131-S
32	1551.72 nm	193.2 THz	W1132-S

ITU Grid	Channel	Frequency	Part No.
33	1550.92 nm	193.3 THz	W1133-S
34	1550.12 nm	193.4 THz	W1134-S
35	1549.32 nm	193.5 THz	W1135-S
36	1548.51 nm	193.6 THz	W1136-S
37	1547.72 nm	193.7 THz	W1137-S
38	1546.92 nm	193.8 THz	W1138-S
39	1546.12 nm	193.9 THz	W1139-S
40	1545.32 nm	194.0 THz	W1140-S
41	1544.53 nm	194.1 THz	W1141-S
42	1543.73 nm	194.2 THz	W1142-S
43	1542.94 nm	194.3 THz	W1143-S
44	1542.14 nm	194.4 THz	W1144-S
45	1541.35 nm	194.5 THz	W1145-S
46	1540.56 nm	194.6 THz	W1146-S
47	1539.77 nm	194.7 THz	W1147-S
48	1538.98 nm	194.8 THz	W1148-S
49	1538.19 nm	194.9 THz	W1149-S
50	1537.40 nm	195.0 THz	W1150-S
51	1536.61 nm	195.1 THz	W1151-S
52	1535.82 nm	195.2 THz	W1152-S
53	1535.04 nm	195.3 THz	W1153-S
54	1534.25 nm	195.4 THz	W1154-S
55	1533.47 nm	195.5 THz	W1155-S
56	1532.68 nm	195.6 THz	W1156-S
57	1531.90 nm	195.7 THz	W1157-S
58	1531.12 nm	195.8 THz	W1158-S
59	1530.33 nm	195.9 THz	W1159-S
60	1529.55 nm	196.0 THz	W1160-S
61	1528.77 nm	196.1 THz	W1161-S
62	1527.99 nm	196.2 THz	W1162-S
63	1527.22 nm	196.3 THz	W1163-S
64	1526.44 nm	196.4 THz	W1164-S
65	1525.66 nm	196.5 THz	W1165-S

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