# 0403 DWDM 200 G

## W12XX-S

# 200 GHz Spacing DWDM Filters (ITU Grid, 1.6 nm)

The DWDM is designed for long-haul transmission where wavelengths are packed tightly together. The 200 GHz spacing DWDM filters allow system designers optimal configuration flexibility. They featured with a 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 optical filter.
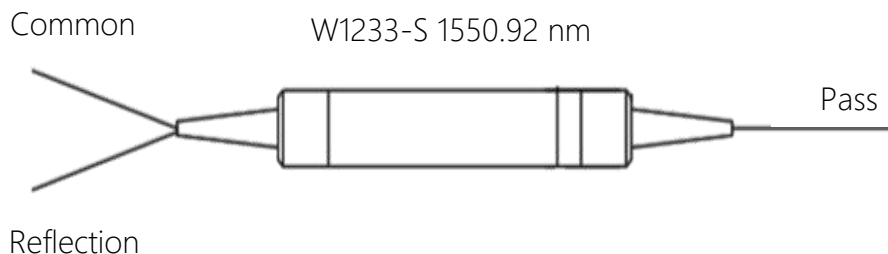
## FEATURES

- 1.6 nm Channel Spacing
- 60 Wavelengths Available

- High Channel Isolation
- High Stability and Reliability
- Low Insertion Loss

## USE IN

- Narrow Bandwidth Filter
- Channel Add/Drop

- Wavelength Routing
- Fiber Optic Amplifier
- DWDM Network

## FUNCTIONAL DIAGRAM

Common

W1233-S 1550.92 nm

Pass

Reflection

## ORDERING OPTIONS

**W12XX-S**
    **XX:** Channel Number
      01, 02,… 60

Example
01=W1201-S 1577.03 nm
02=W1202-S 1576.20 nm
...
60=W1260-S 1529.55 nm

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| | |
|---|---|
| Channel Center Wavelength | ITU Grid 200 GHz 1.6 nm |
| Operating Wavelength Range | 1529.55(CH60) to 1577.03(CH01) nm |
| Channel Passband (@-0.5 dB Bandwidth) | 0.50 nm min. |
| Pass Channel Insertion Loss | 0.9 dB max. |
| Reflection Channel Insertion Loss | 0.6 dB max. |
| Return Loss | 45 dB min. |
| Directivity | 50 dB min. |
| Isolation-Adjacent Channel | 30 dB min. |
| Isolation-Non-Adjacent Channel | 40 dB min. |
| Spectral Ripple | 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 | -20°C to +75°C |
| Storage Temperature | -45°C to +85°C |

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## Selection Guide (Channel 01-60)

| ITU Grid | Channel | Frequency | Part No. | ITU Grid | Channel | Frequency | Part No. |
|---|---|---|---|---|---|---|---|
| 01 | 1577.03 nm | 190.1 THz | W1201-S | 31 | 1552.52 nm | 193.1 THz | W1231-S |
| 02 | 1576.20 nm | 190.2 THz | W1202-S | 32 | 1551.72 nm | 193.2 THz | W1232-S |
| 03 | 1575.37 nm | 190.3 THz | W1203-S | 33 | 1550.92 nm | 193.3 THz | W1233-S |
| 04 | 1574.54 nm | 190.4 THz | W1204-S | 34 | 1550.12 nm | 193.4 THz | W1234-S |
| 05 | 1573.71 nm | 190.5 THz | W1205-S | 35 | 1549.32 nm | 193.5 THz | W1235-S |
| 06 | 1572.89 nm | 190.6 THz | W1206-S | 36 | 1548.51 nm | 193.6 THz | W1236-S |
| 07 | 1572.06 nm | 190.7 THz | W1207-S | 37 | 1547.72 nm | 193.7 THz | W1237-S |
| 08 | 1571.24 nm | 190.8 THz | W1208-S | 38 | 1546.92 nm | 193.8 THz | W1238-S |
| 09 | 1570.42 nm | 190.9 THz | W1209-S | 39 | 1546.12 nm | 193.9 THz | W1239-S |
| 10 | 1569.59 nm | 191.0 THz | W1210-S | 40 | 1545.32 nm | 194.0 THz | W1240-S |
| 11 | 1568.77 nm | 191.1 THz | W1211-S | 41 | 1544.53 nm | 194.1 THz | W1241-S |
| 12 | 1567.95 nm | 191.2 THz | W1212-S | 42 | 1543.73 nm | 194.2 THz | W1242-S |
| 13 | 1567.13 nm | 191.3 THz | W1213-S | 43 | 1542.94 nm | 194.3 THz | W1243-S |
| 14 | 1566.31 nm | 191.4 THz | W1214-S | 44 | 1542.14 nm | 194.4 THz | W1244-S |
| 15 | 1565.50 nm | 191.5 THz | W1215-S | 45 | 1541.35 nm | 194.5 THz | W1242-S |
| 16 | 1564.68 nm | 191.6 THz | W1216-S | 46 | 1540.56 nm | 194.6 THz | W1246-S |
| 17 | 1563.86 nm | 191.7 THz | W1217-S | 47 | 1539.77 nm | 194.7 THz | W1247-S |
| 18 | 1563.05 nm | 191.8 THz | W1218-S | 48 | 1538.98 nm | 194.8 THz | W1248-S |
| 19 | 1562.23 nm | 191.9 THz | W1219-S | 49 | 1538.19 nm | 194.9 THz | W1249-S |
| 20 | 1561.42 nm | 192.0 THz | W1220-S | 50 | 1537.40 nm | 195.0 THz | W1250-S |
| 21 | 1560.61 nm | 192.1 THz | W1221-S | 51 | 1536.61 nm | 195.1 THz | W1251-S |
| 22 | 1559.79 nm | 192.2 THz | W1222-S | 52 | 1535.82 nm | 195.2 THz | W1252-S |
| 23 | 1558.98 nm | 192.3 THz | W1223-S | 53 | 1535.04 nm | 195.3 THz | W1253-S |
| 24 | 1558.17 nm | 192.4 THz | W1224-S | 54 | 1534.25 nm | 195.4 THz | W1254-S |
| 25 | 1557.36 nm | 192.5 THz | W1225-S | 55 | 1533.47 nm | 195.5 THz | W1255-S |
| 26 | 1556.55 nm | 192.6 THz | W1226-S | 56 | 1532.68 nm | 195.6 THz | W1256-S |
| 27 | 1555.75 nm | 192.7 THz | W1227-S | 57 | 1531.90 nm | 195.7 THz | W1257-S |
| 28 | 1554.94 nm | 192.8 THz | W1228-S | 58 | 1531.12 nm | 195.8 THz | W1258-S |
| 29 | 1554.13 nm | 192.9 THz | W1229-S | 59 | 1530.33 nm | 195.9 THz | W1259-S |
| 30 | 1553.33 nm | 193.0 THz | W1230-S | 60 | 1529.55 nm | 196.0 THz | W1260-S |