

Features

- Wide bandwidth
- Low insertion loss
- High channel isolation
- Exceptional reliability and stability



Applications

- Optical amplifiers
- CATV

Product Description

Primanex FWDM components use mature thin-film interference filter technology to separate or combine specific optical signals. With wide bandwidth, low insertion loss, high isolation, and low temperature dependent loss, they are ideal for use in optical amplifier, CATV, and FTTH applications.

Specifications

| Item | Unit | Parameters | | | | Notes | |
|-----------------------------|--------------------------------|--------------------------|-------------|-----------|-----------|-------------------------|------------------------------------|
| Pass Port (C-P) | Central Wavelength λ_P | nm | 1310 | 1550 | 1310/1480 | 1510 | |
| | Wavelength Range | nm | 1260~1360 | 1500~1600 | 1260~1500 | 1500~1520 | |
| | Insertion Loss | dB | ≤ 0.60 | | | | |
| | Flatness | dB | ≤ 0.30 | | | | |
| | Isolation @ λ_R | dB | ≥ 30 | | | | |
| Reflect Port (C-R) | Central Wavelength λ_R | nm | 1480/1550 | 980 | 1550 | 1550 | |
| | Wavelength Range | nm | 1380~1620 | 960~1000 | 1530~1620 | 1528~1566 | |
| | Insertion Loss | dB | ≤ 0.40 | | | | |
| | Flatness | dB | ≤ 0.25 | | | | |
| | Isolation @ λ_P | dB | ≥ 13 | | | | High isolation (26 dB) is optional |
| Directivity | dB | ≥ 50 | | | | | |
| Optical Return Loss | dB | ≥ 50 | | | | | |
| Polarization Dependent Loss | dB | ≤ 0.1 | | | | | |
| PMD | ps | ≤ 0.1 | | | | | |
| Thermal Stability | dB/°C | ≤ 0.005 | | | | | |
| Optical Power | mW | ≤ 500 | | | | | |
| Tensile Load | N | ≥ 5 | | | | | |
| Operating Temperature | °C | -5 to + 70 | | | | | |
| Storage Temperature | °C | -40 to + 85 | | | | | |
| Fiber Type | | SMF-28e+ | | | | Other fiber is optional | |
| Package Dimension | mm | $\phi 5.5 \times 34$ (A) | | | | 250 μ m bare fiber | |
| | mm | $\phi 5.5 \times 39$ (B) | | | | 900 μ m loose tube | |

*. All the specifications are based on the devices without connectors, and guaranteed over wavelength, polarization and temperature.

** Specifications are subject to change without notice.

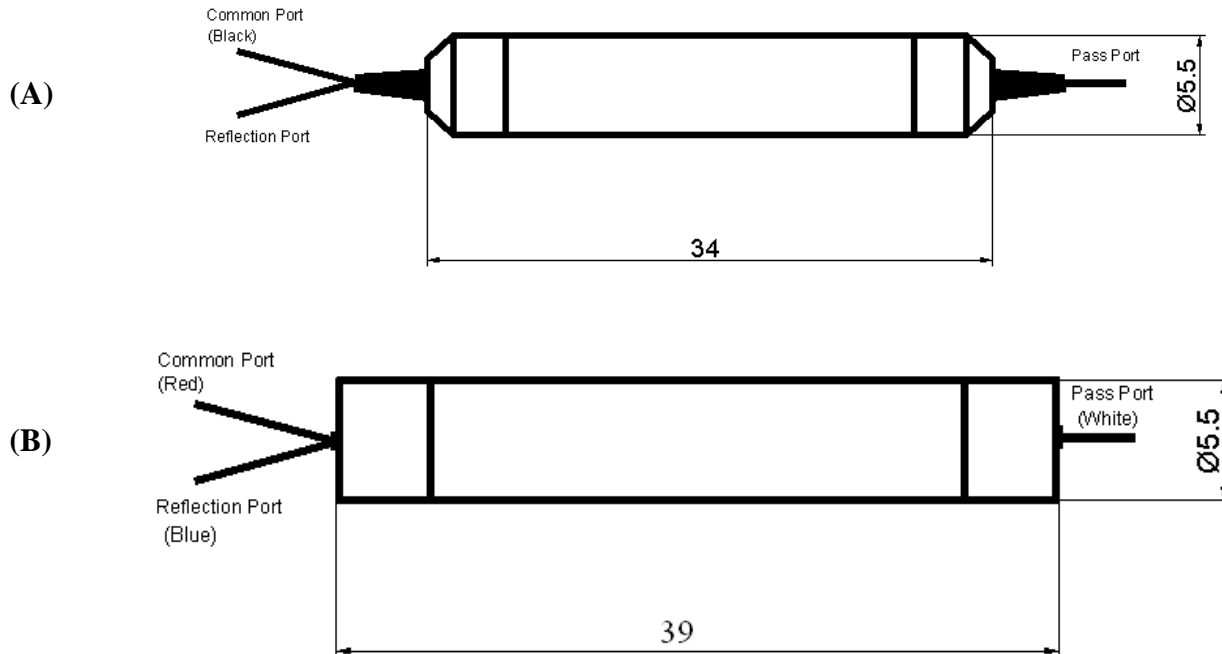
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Dimensions Drawing (Unit: mm)



Ordering Information (Example:FWDM-111120)

| FWDM - <input type="checkbox"/> | <input type="checkbox"/> | 1 | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
|----------------------------------|--------------------------|----------------------|--------------------------|--------------------------|--------------------------|
| WDM Type | Isolation @ λ_R | Fiber Type | Fiber Length | Connector Type | |
| 1. 1480(Reflect)/1550(Pass) | 1. 30dB Isolation | 1. 250 μ m fiber | 1. 0.5 +/- 0.1 m | 0. No Connector | |
| 2. 1310(Reflect)/1550(Pass) | 2. High Isolation | 2. 900 μ m fiber | 2. 1.0 +/- 0.1 m | 1. FC/UPC | |
| 3. 1510(Reflect)/1550(Pass) | | 3. Others | 3. Others | 2. FC/APC | |
| 4. 980(Reflect)/1550(Pass) | | | | 3. SC/UPC | |
| 5. 1480&1310(Reflect)/1310(Pass) | | | | 4. SC/APC | |
| 6. 1550(Reflect)/1310&1480(Pass) | | | | 5. LC/PC | |
| 7. 1550(Reflect)/1510(Pass) | | | | 6. MU/PC | |
| 8. Others | | | | 7. Others | |

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