

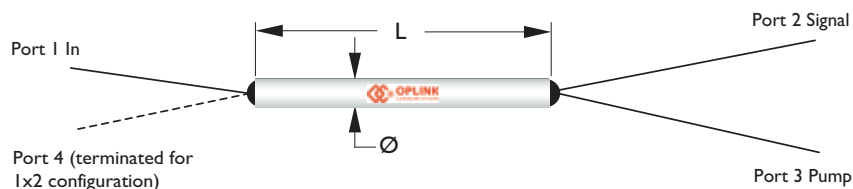
FUSED SINGLE-MODE WDM (1310/1550NM)

SWDM53 Series

Product Description

Oplink's 1310/1550nm fused single-mode wavelength division multiplexers are manufactured using the proven fused biconical taper technology and Oplink's stringent quality procedures. With low insertion loss and flat passband, this device is ideal for combining or separating optical signals in the 1310 and 1550nm bands.

Oplink can provide customized designs to meet specialized feature applications. Also, Oplink offers modular assemblies that integrate other components to form a full function module or subsystem.



Performance Specification

| SWDM53 Series | Standard | | High Isolation | | Unit |
|------------------------------|---------------------------|---------------------------|----------------|--------|------|
| | P | A | P | A | |
| Grade (P=Premium, A=Grade A) | P | A | P | A | |
| Operating Wavelength | 1295~1325nm / 1528~1565nm | | | | |
| Insertion Loss | < 0.3 | < 0.5 | < 0.7 | < 0.1 | dB |
| Wavelength Dependent Loss | < 0.15 | < 0.20 | < 0.15 | < 0.20 | dB |
| Temperature Dependent Loss | < 0.15 | < 0.20 | < 0.15 | < 0.20 | dB |
| Isolation | > 17 | > 16 | > 34 | > 30 | dB |
| Polarization Dependent Loss | < 0.1 | | < 0.2 | | dB |
| Directivity | > 55 | | | | dB |
| Maximum Power Handling | 500 | | | | mW |
| Operating Temperature | - 10 to + 70 | | | | °C |
| Storage Temperature | - 40 to + 85 | | | | °C |
| Fiber Type | Corning SMF-28 | | | | |
| Package Dimensions ** | P1: 250µm SMF-28 fiber | (ø) 3.0 x (L) 54.0 | | mm | |
| | P2: 900µm loose tube | (ø) 3.0 x (L) 60.0 | | | |
| | P3: 3mm cable | (L) 96 x (W) 12 x (H) 6.4 | | | |
| | P4: | (L)100 x (W) 80 x (H) 7.0 | | | |

Note:

* Values are referenced without connector loss.

** The mechanical tolerance should be +/-0.2 mm on all package dimensions unless otherwise custom specified.

*** Return loss includes PDL and WDL.

Features

- ◆ Ultra Low Insertion Loss
- ◆ Ultra High Isolation
- ◆ Low Polarization Sensitivity
- ◆ High Directivity
- ◆ High Stable & Reliable
- ◆ Bidirectional

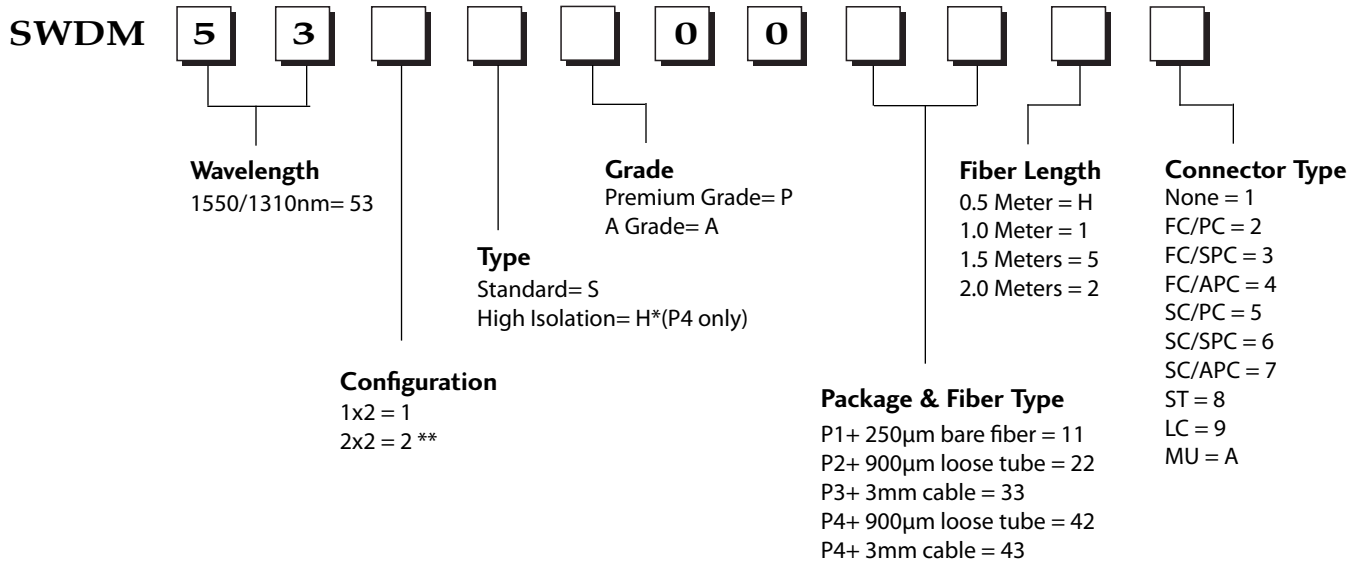
Applications

- ◆ Telecommunications
- ◆ CATV
- ◆ Subscriber Loop
- ◆ Local Area Networks
- ◆ Laboratory R&D

SWDM53 SERIES

Ordering Information

Oplink can provide a remarkable range of customized optical solutions. For detail, please contact Oplink's OEM design team or account manager for your requirements and ordering information (510) 933-7200.



Notes :
* Must be P4 package
** Not available for high isolation model