

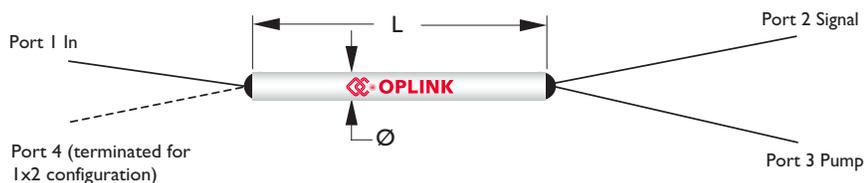
FUSED SINGLE-MODE WDM (1310/1550NM)

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 pass-band, 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 ^{1,2}	< 0.3	< 0.5	< 0.7	< 1.0	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 or equivalent				
Package Dimensions *	P1: 250µm SMF-28 fiber P2: 900µm loose tube P3: 3mm cable P4: 900µm Loose Tube or 3mm Cable(High Isolation only)		(ø) 3.0 x (L) 54.0 (ø) 3.0 x (L) 60.0 (L) 96 x (W) 12 x (H) 6.4 (L)100 x (W) 80 x (H) 7.0		mm

Note:

1. Values are referenced without connector loss.

2. Insertion loss over operating wavelength range at ~23°C (excluding PDL and TDL).

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

Features

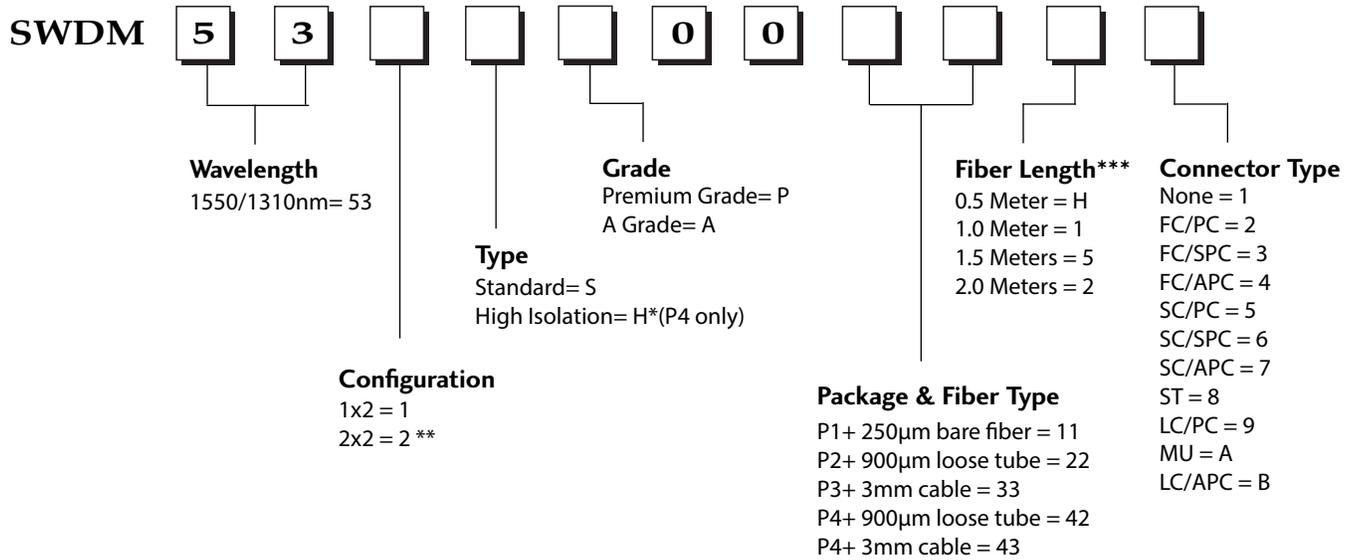
- ◆ Ultra Low Insertion Loss
- ◆ Ultra High Isolation
- ◆ Low Polarization Sensitivity
- ◆ High Directivity
- ◆ High Stable & Reliable
- ◆ Bidirectional

Applications

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

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

*** 1 meter is standard. The lead time for special fiber length will be longer. The tolerance of fiber length is +/-0.1m. (For connector option only, for without connector, just keep the length as minimum)

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