

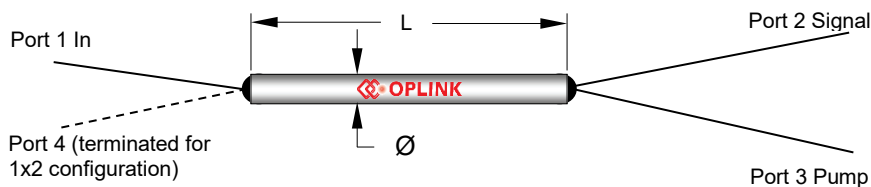
SWDM53xxx00xxxx

Fused Single-Mode WDM (1310/1550nm)

molex

Molex's 1310/1550 nm 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 1550 nm bands.

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



Features and Benefits

Ultra Low Insertion loss

Ultra High Isolation

Low Polarization Sensitivity

High Directivity

Highly Stable & Reliable

Bidirectional

Applications

Telecommunications

CATV

Subscriber Loop

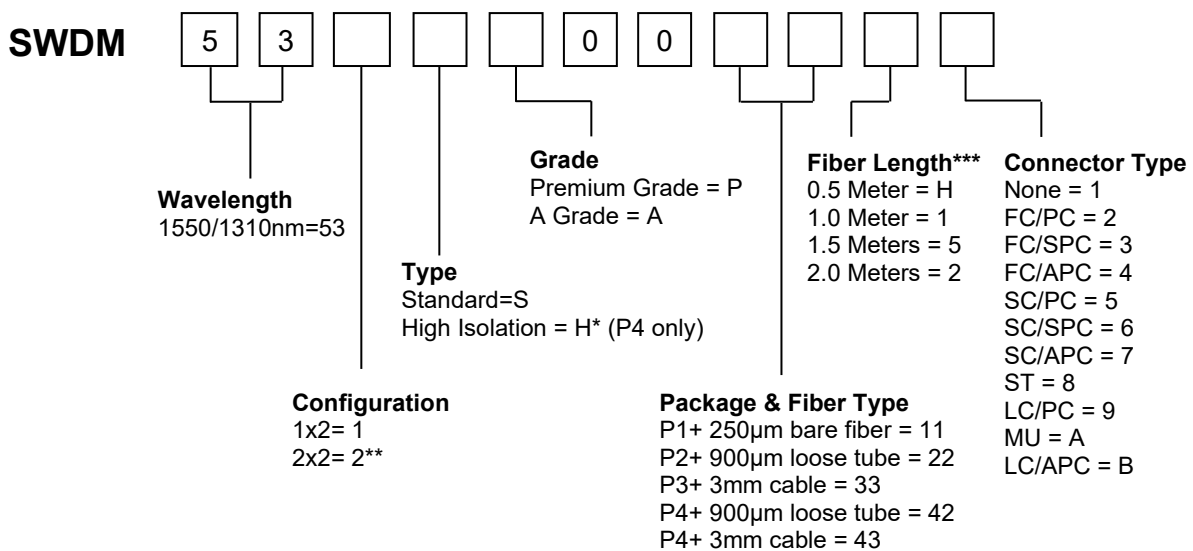
Local Area Networks

Laboratory R&D

Specifications

SWDM53		Standard		High Isolation		Unit
Grade (P=Premium, A=Grade A)		P	A	P	A	
Operating Wavelength		1295 ~ 1325 / 1528 ~ 1565				nm
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 Dimension *	P1: 250µm Bare Fiber	(Φ) 3.0±0.2 x (L) 54.0±1				mm
	P2: 900µm loose tube	(Φ) 3.0±0.2 x (L) 60.0±1				
	P3: 3mm cable	(L)96.0±0.2 x (W)12.0±0.2 x (H)6.4±0.2				
	P4: 900µm Loose Tube or 3mm Cable(High Isolation only)	(L)100.0±0.2 x (W)80.0±0.2 x (H)7.0±0.2				

Ordering Information



* **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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