

Thin-Film 1310+1490/1550 Wavelength Division Multiplexer

This document proposes the specification of the Thin-Film Wavelength Division Multiplexer that transmits light at 1550 nm and reflects light at 1310 and 1490 nm.

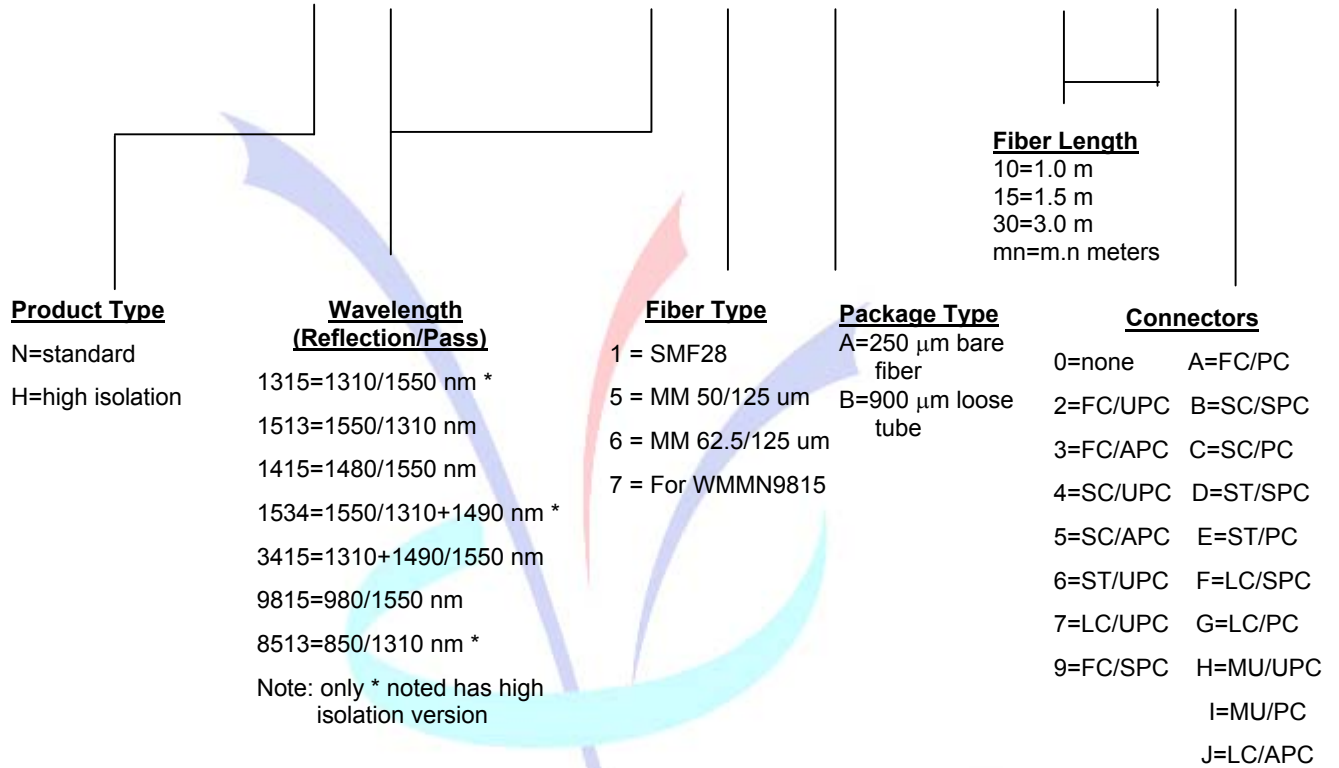
Specifications

(All parameters are referenced without connectors. Typical connector loss 0.25 dB/pair)

Parameters	Specifications	Unit	
Transmitted Band	1535-1565	nm	
Reflected Band	1270-1350 and 1480-1500	nm	
Passband Insertion Loss	≤ 0.8	dB	
Reflected band Insertion Loss	≤ 0.6	dB	
Insertion loss uniformity over Transmitted band	≤ 0.2	dB	
Insertion loss uniformity over Reflected band	≤ 0.2	dB	
Isolation in Transmission against Reflected band	≥ 30	dB	
Isolation in Reflection against Transmitted Band	≥ 15	dB	
PDL	≤ 0.1	dB	
PMD	≤ 0.1	ps	
Return Loss	≥ 50	dB	
Directivity	≥ 55	dB	
Optical Power Handling	> 500	mW	
Operating Temperature	0 to 70	°C	
Storage Temperature	-40 to 85	°C	
Fiber Type	Corning SMF 28		
Package Dimension (excluding strain relief)	Bare Fiber	$\phi 5.5 \times 35$ typical	mm
	900 μ m Loose Tube	$\phi 5.5 \times 40$ typical	

Part number of WDM

W	M	M								N	N			
---	---	---	--	--	--	--	--	--	--	---	---	--	--	--



OptiWorks