



## **Thin-Film 1480/1550 Wavelength Division Multiplexer**

[www.Optiworks.com](http://www.Optiworks.com)

This document proposes the specification of the Thin-Film Wavelength Division Multiplexer that transmits light at 1550 nm and reflects light at 1480 nm.

## 1. Specifications

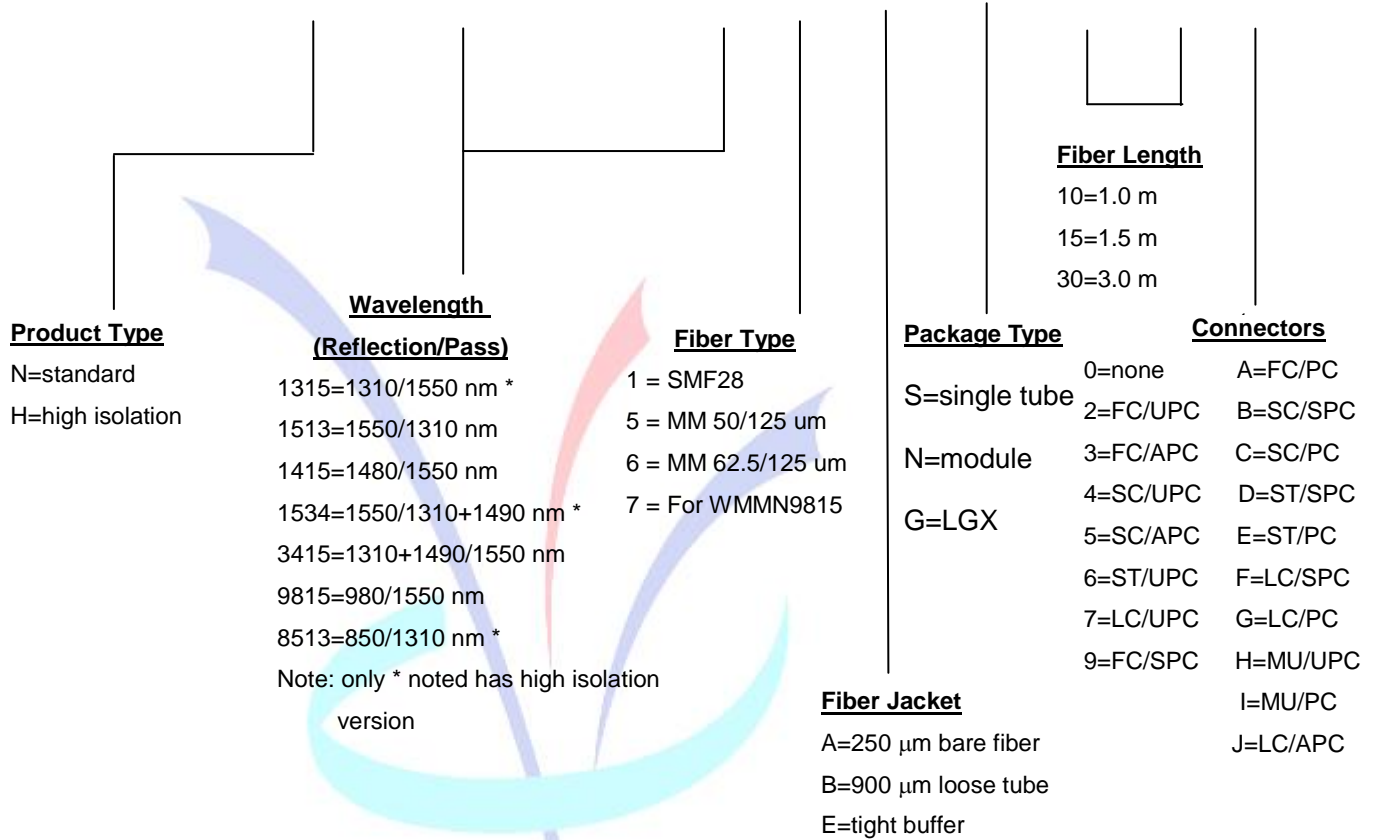
(All parameters are referenced without connectors. Typical connector loss 0.25 dB/pair)

Parameters	Specifications	Unit	
Transmitted Band	1530-1610	nm	
Reflected Band	1460-1490	nm	
Passband Insertion Loss	$\leq 0.7$	dB	
Reflected band Insertion Loss	$\leq 0.4$	dB	
Insertion loss uniformity over Transmitted band	$\leq 0.3$	dB	
Isolation in Transmission against Reflected Band	$\geq 30$	dB	
Isolation in Reflection against Transmitted Band	$\geq 15$	dB	
PDL	$\leq 0.1$	dB	
PMD	$\leq 0.1$	ps	
Return Loss	$\geq 50$	dB	
Directivity	$\geq 55$	dB	
Optical Power Handling	$> 500$	mW	
Operating Temperature	0 to 70	°C	
Storage Temperature	-40 to 85	°C	
Fiber Type	SMF 28		
Package Dimension (excluding strain relief)	Bare Fiber	$\phi 5.5 \times 35$ typical	mm
	900 $\mu\text{m}$ Loose Tube	$\phi 5.5 \times 40$ typical	

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**2. Part number of WDM**

W	M	M									N			
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**3. size reference**

NA

**4. RoHS appliance. GR-1209-Core, GR-1221-Core Generic Requirement and test standard.**

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