

## Thin-Film 980/1550 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 980 nm.

### Specifications

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

Parameters		Specifications	Unit
Transmitted Band		1530-1610	nm
Reflected Band		965-995	nm
Passband Insertion Loss		$\leq 1.0$	dB
Reflected band Insertion Loss		$\leq 0.6$	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 at signal, HI 1060 at com and pump port	
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	

### Part number of WDM

W	M	M								N	N			
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