

Thin-Film 1310/1550 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 nm.

Specifications

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

Parameters		Specifications	Unit
Transmitted Band		1520-1610	nm
Reflected Band		1270-1350	nm
Passband Insertion Loss		≤ 0.7	dB
Reflected band Insertion Loss		≤ 0.5	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		≥ 35	dB
Isolation in Reflection against Transmitted Band		≥ 18	dB
PDL		≤ 0.1	dB
PMD		≤ 0.1	ps
Return Loss	Single-mode	≥ 50	dB
	Multi-mode	≥ 40	
Directivity	Single-mode	≥ 55	dB
	Multi-mode	≥ 45	
Optical Power Handling		> 500	mW
Operating Temperature		0 to 70	°C
Storage Temperature		-40 to 85	°C
Fiber Type		SMF 28, Multimode 62.5/125, or Multimode 50/125	
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			
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