

Thin-Film High Isolation 1310+1490/1550 Wavelength Division Multiplexer

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

Specifications

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

Parameters	Specifications	Unit	
Transmitted Band	1270-1350 and 1480-1500	nm	
Reflected Band	1535-1565	nm	
Passband Insertion Loss	≤ 1.0	dB	
Reflected band Insertion Loss	≤ 1.2	dB	
Insertion loss uniformity over Transmitted band	≤ 0.2	dB	
Insertion loss uniformity over Reflected band	≤ 0.1	dB	
Isolation in Transmission against Reflected band	≥ 40	dB	
Isolation in Reflection against Transmitted Band	≥ 40	dB	
PDL	≤ 0.1	dB	
PDL over Reflected band	≤ 0.5	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	ϕ 5.5 x 35 typical	mm
	900 μ m Loose Tube	ϕ 5.5 x 40 typical	

Part number of WDM

W	M	M								N	N			
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