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BY FIBER SYSTEM

PRODUCT MANUAL

1310/1550NM FILTER WAVELENGTH DIVISION MULTIPLEXER

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Product Overview

In fiber-optic communications, wavelength-division multiplexing (WDM) is a technology which multiplexes a number of optical carrier signals onto a single optical fiber by using different wavelengths (i.e., colors) of laser light.[1] This technique enables bidirectional communications over a single strand of fiber, also called wavelength-division duplexing, as well as multiplication of capacity.

The 1310/1550nm Filter Wavelength Division Multiplexer is based on environmentally stable thin-film filter technology. The devices combine or separate light at different wavelength in a wide wavelength range. They offer very low insertion loss, low polarization dependence, high isolation and excellent environmental stability. High power handling capability can be achieved through unique pigtail processing and high quality AR coating. These components have been extensively used in EDFAs, Raman amplifiers, WDM networks and fiber optical instruments.

Technical Specifications

Parameter	Unit	Values
Transmission Wavelength Range	nm	1530~1600 (or 1270~1350)
Reflect Wavelength Range	nm	1270~1350 (or 1530~1600)
Max. Insertion Loss	Transmission	dB 0.6
	Reflect	dB 0.4
Min. Isolation	Transmission	dB 30
	Reflect	dB 12
Max. PDL	dB	0.1
Min. Channel Flatness	dB	0.3
Min. Return Loss	dB	50
Max. Power Handling(CW)	W	0.3, 0.7, 1, 2, 3
Max. Tensile Load(N)	N	≤5
Fiber Type	-	SMF-28e
Operating Temperature	°C	-5 to +70
Storage Temperature	°C	-40 to +85
Package Dimensions	mm	Ø5.5 x L35



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