

Introduction



Rayzer's **Single Mode Fused Wavelength Division Multiplexer (FBTWDM)** series product, based on fused bi-conical taper (FBT) technology, is used to realize the combined and separated waves of optical signals of two wavelengths. It is widely used in the fields of fiber lasers, fiber amplifiers, fiber communication and fiber sensing. The wavelength division multiplexer has low loss, high channel isolation, high return loss, high stability and reliability.



Specification

Parameters		Unit	Values				
Pass Port	Wavelength Range	nm	960-990		1270-1350	1450-1490	1550-1590
	Max. Insertion Loss	dB	0.7		0.6		0.7
	Typ. Insertion Loss	dB	0.5		0.4		0.5
	Min. Isolation	dB	25		26		26
	Typ. Isolation	dB	30		30		30
Reflection Port	Wavelength Range	nm	1020-1100	1530-1600	1530-1600		1950-2050
	Max. Insertion Loss	dB	0.5		0.5		0.6
	Typ. Insertion Loss	dB	0.3		0.3		0.4
	Min. Isolation	dB	13		13		13
	Typ. Isolation	dB	15		15		15
Min. Return Loss		dB	50				
Max. Handling Power		mW	500				
Fiber Type		--	OFS980 / Corning HI1060flex / Corning SMF28e / SM1950				
Max. Tensile Load		N	5				
Operating Temperature		°C	-5 to +70				
Storage Temperature		°C	-40 to +85				

*IL is 0.3 dB higher, RL is 5 dB lower, and ER is 2 dB lower for each connector added. Connector key is aligned to slow axis.

*Above specifications are for device without connector and may change without notice.

Ordering Information

FBTWDM-①-②-③-④-⑤-⑥

① Central Wavelength	② Fiber Type	③ Package Dimension	④ Fiber Length	⑤ Fiber Jacket	⑥ Connector
980/1064—pass/reflection	Hi1060Flex-Hi1060Flex	5.5x35	1-1M	0-Bare Fiber	FU-FC/PC
1064/980—pass/reflection	Hi1060-Hi1060	2.5x20	S-Specify	1-900μm Loose Tube	FA-FC/APC
1550/980—pass/reflection	SMF28e/Hi1060Flex-SMF28e/Hi1060Flex	2.5X30		2-2mm Cable	S-specify
s-Specify	S-Specify	S-Specify		3-3mm Cable	