

Introduction

Rayzer's Polarization Maintaining Filter Coupler (PMFC) series, is used to convert the polarization maintaining fiber input into two outputs according to the established spectral ratio. It is widely used in the fields of fiber laser, fiber amplifier, fiber communication and fiber sensing, with compact dimension, low insertion loss, low polarization-related loss and high stability.



Specification

Parameter	Unit	Values
Configuration	-	1X2 or 2X2
Center Wavelength	nm	1310
Operating Wavelength Range	nm	±20
Max.PDL	dB	0.1
Typ. Excess Loss	dB	0.3
Max. Excess Loss	dB	0.5
Typ. Extinction Ratio	dB	20
Min.Extinction Ratio	dB	18
Min. Return Loss	dB	50
Handing Power	mW	2000
Max. Tensile Load	N	5
Fiber Type	-	PM1550
Working Temperature	°C	-5 to +75°C
Storage Temperature	°C	-40 to +85°C
Coupling Ratio and Tolerance		
Coupling Ratio	%	1/99 2/98 5/95 10/90 20/80 30/70 40/60 50/50
Tolerance	%	±0.3 ±0.5 ±0.7 ±1.0 ±2.0 ±2.0 ±2.5 ±3.0

*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

PMFC-①-②-③-④-⑤-⑥-⑦-⑧

① Center Wavelength	② Configuration	③ Coupling Ratio	④ Fiber Type	⑤ Fiber Length	⑥ Fiber Jacket	⑦ Connector Type	⑧ Working Axis
1064-1064nm	1×2-1×2	1/99-1/99	PM980	1-1M	0-Bare Fiber	FU-FC/PC	F-Fast Axis Blocked
1550-1550nm	2×2-2×2	10/90-10/90	PM1550	S-Specify	1-900μm Loose Tube	FA-FC/APC	B-Both Axis Blocked
2000-2000nm		50/50-50/50	S-Specify		2-2mm Cable	S-specify	S-specify
S-Specify		S-Specify					