

## 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	633	780	830	980	1064	1310	1550	2000
Operating Wavelength Range	nm	±3	±10	±10	±15	±15	±20	±20	±20
Max.PDL	dB	0.2	0.2	0.2	0.1	0.1	0.1	0.1	0.2
Typ. Excess Loss	dB	0.8	0.5	0.5	0.4	0.4	0.3	0.3	0.5
Max. Excess Loss	dB	1.2	0.8	0.8	0.6	0.6	0.5	0.5	0.7
Typ. Extinction Ratio	dB	18	18	18	20	20	20	20	20
Min.Extinction Ratio	dB	15	15	15	17	18	18	18	18
Min.Return Loss	dB	50							
Handing Power	mW	100	200	200	300	500	2000	2000	4000
Max. Tensile Load	N	5							
Fiber Type	-	PM630HP	PM780HP	PM780HP	PM980	PM980	PM1550	PM1550	PM1550 PM1950
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					