

Introduction



Rayzer's **Polarization Maintaining Isolator(PMI)** series product, is an in-line pig-tailed micro-optic component allows light to be transmitted only in the forward direction while blocking the backward transmission. It features high isolation ,high extinction and low insertion loss. It is ideal for fiber laser、 fiber amplifier、 fiber communication and fiber sensor.



Specification

Parameters	Unit	Values							
Center Wavelength	nm	1064				1310/1480/1550			
Stage	-	Single Stage		Dual Stage		Single Stage		Dual Stage	
Grade	-	Grade P	Grade A	Grade P	Grade A	Grade P	Grade A	Grade P	Grade A
Typ. Peak Isolation	dB	40	38	55	52	35	32	50	45
Min. Isolation @23℃)	dB	35	32	45	42	25	23	45	42
Typ. Insertion Loss	dB	1.4	1.6	2.3	2.5	0.4	0.5	0.5	0.6
Max. Insertion Loss	dB	1.8	2.0	3.2	3.4	0.5	0.6	0.6	0.8
Typ. Extinction Ratio	dB	22	20	22	20	25	23	25	23
Min. Return Loss	dB	55/50	55/50	55/50	55/50	55/50	55/50	55/50	55/50
Handing Power	mW	300				500			
Max. Tensile Load	N	5							
Fiber Type	-	PM980				PM1550			
Working Temperature	℃	-5 to +75℃							
Storage Temperature	℃	-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

PMI-①-②-③-④-⑤-⑥-⑦-⑧-⑨-⑩

①Central Wavelength	②Grade	③Stage	④Package Dimension	⑤Fiber Type	⑥Fiber Length	⑦Fiber Jacket	⑧Connector	⑨Working Axis
1064-1064nm	P-P Grade	S-Single Stage	5.5x35	PM980-PM980	1-1M	0-Bare Fiber	FU-FC/PC	F-Fast Axis Blocked
1550-1550nm	A-A Grade	D-Dual Stage	2.5x20	PM1550-PM1550	S-Specify	1-900μm Loose Tube	FA-FC/APC	B-Both Axis Blocked
S-Specify			2.5x15	S-Specify		2-2mm Cable	S-specify	
						3-3mm Cable		