

Introduction



Rayzer's **Single Mode Isolator(SMI)** series product, this Polarization insensitive Optical Fiber isolator 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, Low PDL 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	GradeP	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
Polarization Dependent Loss	dB	≤0.1		≤0.15		≤0.1		≤0.15	
Polarization Mode Dispersion	dB	0.2							
Min.Return Loss	dB	50/55							
Handing Power	mW	300				500			
Max.Tensile Load	N	5							
Fiber Type	-	Hi1060				G657A1/G657A2/SMF28e/Customer Request			
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

SMI-①-②-③-④-⑤-⑥-⑦-⑧

①Central Wavelength	②Grade	③Stage	④Package Dimension	⑤Fiber Type	⑥Fiber Length	⑦Fiber Jacket	⑧Connector
1064-1064nm	P-P Grade	S-Single Stage	5.5x35	Hi1060-Hi1060	1-1M	0-Bare Fiber	FU-FC/PC
1550-1550nm	A-A Grade	D-Dual Stage	2.5x20	SMF28e-SMF28e	S-Specify	1-900μm Loose Tube	FA-FC/APC
S-Specify				S-Specify		2-2mm Cable	S-specify
						3-3mm Cable	