

Introduction

Rayzer's **Single Mode Circulator (SMCIR)** series products, are non-reciprocating, one-directional, three port devices which are great for bi-directional propagation of light in a Single Mode fiber. These optical circulators are ideal for advanced fiber communication systems, Bi-direction laser pump system, fiber sensor and fiber laser, science research applications.



Specification

Parameters	Unit	Values	
Center Wavelength	nm	1064	1310/1550
Operating Wavelength Range	nm	±5	±20
Typ.Insertion Loss	dB	2	0.6
Max.Insertion Loss	dB	2.2	0.8
Max.Insertion @λ	dB	20	48
Min.Isolation @λ	dB	45	40
Min.Crosstalk	dB	50	
Min.Return Loss	dB	55	
Max.Polarization Dependent Loss	dB	0.2	0.1
Max.Polarization Mode Dispersion	Ps	0.1	
Handing Power	mW	300	500
Max.Tensile Load	N	5	
Fiber Type	-	Hi1060	SMF28e/G657A1/G657A2
Working 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

SMCIR-①-②-③-④-⑤-⑥-⑦

①Port	②Center Wavelength	③Package Dimension	④Fiber Type	⑤Fiber Length	⑥Fiber Jacket	⑦Connector
3-3 Port	1064-1064nm	5.5x35	Hi1060-Hi1060	1-1M	0-Bare Fiber	FU-FC/PC
4-4 Port	1550-1550nm	2.5x25	SMF28e-SMF28e	1.5-1.5M	1-900μm Loose Tube	FA-FC/APC
S-Specify			G657A1-G657A1	S-Specify	2-2mm Cable	S-specify
			S-Specify		3-3mm Cable	