

Introduction

Rayzer's **High Power Single Mode Collimator(HPSMC)** series products, are pig-tailed GRIN collimators with a pre-assembled variation of our GRIN lenses and glass ferrules, with either single mode or multi-mode fiber pigtails. It can convert the transmitted light in the fiber into collimated parallel light, or couple the external parallel or approximately parallel free-space light into a single-mode fiber.



Specification

Parameters	Unit	Values	
Center Wavelength	nm	1064	1310/1550
Operating Wavelength Range	nm	±20	±30
Beam Diameter	Mm	0.4/0.9/1.0/Specify	0.4/0.9/1.0/Specify
Working Distance	mm	50 or Specify	50 or Specify
@50mm Typ. Insertion Loss	dB	0.25	0.2
@50mm Max. Insertion Loss	dB	0.5	0.4
Min. Return Loss	dB	50	50
Handling Power	W	3/5/10/20/50/Specify	3/5/10/20/50/Specify
Max. Tensile Load	N	5	5
Fiber Type	-	Hi1060/LMA Fiber	SMF28e
Working Temperature	°C	-5 to +70	-5 to +70
Storage Temperature	°C	-40 to +85	-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

HPSMC-①-②-③-④-⑤-⑥-⑦-⑧-⑨

①Center Wavelength	②Handling Power	③Lens Type	④Working Distance	⑤Fiber Type	⑥Fiber Length	⑦Fiber Jacket	⑧Connector	⑨Power Type
1064-1064nm	2-2W	G-G Lens	50-50mm	Hi1060-Hi1060	1-1M	0-Bare Fiber	FU-FC/PC	C-Continuous
1550-1550nm	3-3W	S-Specify	100-100mm	SMF28e-SMF28e	1.5-1.5M	1-900μm Loose Tube	FA-FC/APC	P-Pulse Wave
2000-2000nm	10-10W		500-500mm	S-Specify	S-Specify	2-2mm Cable	S-specify	
S-Specify	S-Specify		Specify			3-3mm Cable		