

980~1160nm Single Fiber Collimator for Pulse Power

FEATURES

- High Return Loss
- Low Insertion Loss
- Epoxy-Free Optical Path
- High Reliability and Stability
- Low Profile Packaging

APPLICATIONS

- Optical Isolator
- Optical Circulator
- Optical Components
- WDM Assembly
- Laboratory R&D



SPECIFICATIONS

Parameters	Unit	Single Fiber
Working Wavelength	nm	975, 980, 990, 1000 1020, 1030, 1040, 1053, 1064, 1070, 1080, 1092, 1103, 1120, 1150
Bandwidth	nm	+/-10
Working Distance (WD)	mm	5, 10, 15, 20, 30, 50
Insertion Loss (WD=5mm)	Typ.	0.35
	Max.	0.55
Return Loss	dB	≥50
Lens Type	-	C-Lens, GRIN Lens or Aspherical-Lens
Fiber Type	-	HI1060 Fiber or 10/125um SC Fiber (E) 10/125um DC Fiber (O), 15/130um DC Fiber (W) 20/130um DC Fiber (Q) or 25/250um DC Fiber (R)
Fiber Sleeve	-	250um Bare Fiber or 900um Loose Tube
Fiber Length	m	1.0, 1.5 or customer specify
Max. Average Optical Power	W	0.3, 0.5, 1, 2, 3, 5, 10, 20, 30, 40, 50, 60, 80, 100
Max. Peak Power for pulse	kW	0.1, 1, 2, 3, 5, 10, 15, 20
Operating Temperature	°C	0~50
Storage Temperature	°C	-40~85
Package Dimension	mm	Φ3.2x ^L 10 for Metal Tube Φ2.78x ^L 9 for Glass Tube

- Note:**
1. Specifications are for device without connectors; Specifications may change without notice.
 2. To add connectors, IL is 0.5dB higher, RL is 5dB lower.
 3. Only guarantee 1W continuous wave (CW) power thru testing for connectors added.
 4. Devices for higher optical power or with other type fiber or consigned fiber are also available; Devices can only work in the core of Double Cladding (DC) Fiber, Cladding Power must be stripped before connecting the device.
 5. Package size may be different for different lens and optical power.

ORDERING INFORMATION (PN)

Wavelength	WD	Package	Housing	Lens Type	Average Power	Peak Power	Fiber Type	Fiber Sleeve	Fiber Length	Connector
980-980nm	005-5mm	S-Standard	M-Metal	G-Grin Lens	03-300mW	01-100W	E=10/125 SC Fiber	B-Bare Fiber	05-0.5m	N=None
1030-1030nm	010-10mm		G-Glass	C-C-lens	1-1W	1-1kW	Q=20/130 DC Fiber	L-Loose Tube	10-1.0m	SC/PC= SC/PC Connector
1064-1064nm	020-20mm			A-Aspherical Lens	5-5W	5-5kW	R=25/250 DC Fiber		15-1.5m	FC/APC=FC/APC Connector
1120-1120nm	050-50mm				10-10W	10-10kW	Blank for HI1060 Fiber		20-2.0m	LC/UFC=LC/UFC Connector