

1020~1160nm High Power Multimode Single Fiber Collimator

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
Center Wavelength	nm	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.	0.40
	Max.	0.60
Return Loss	dB	≥30
Lens Type	-	C-Lens, GRIN Lens or Aspherical-Lens
Fiber Type	-	50/125um GIMM Fiber(5) or 62.5/125um GIMM Fiber(6) 50/125um GIMM OM3 Fiber(3) or 106.5/125um NA=0.22(J) 105/125um NA=0.12(D), NA=0.15(B) or NA=0.22(A)
Fiber Sleeve	-	250um Bare Fiber or 900um Loose Tube
Fiber Length	m	1.0, 1.5 or customer specify
Maximum Optical Power (CW)	mW	1, 2, 3, 5, 10, 15, 20, 25, 30, 40, 50, 60, 80, 100
Operating Temperature	°C	0~50
Storage Temperature	°C	-40~85
Package Dimension	mm	∅3.2x ^L 10 for Metal Tube ∅2.78x ^L 9 for Glass Tube

- Note:**
1. Specifications are for device without connectors; Specifications may change without notice.
 2. To add connectors, IL is 0.3dB higher, RL is 10dB lower.
 3. Only guarantee 1W continuous wave (CW) power thru testing for connectors added.
 4. Specifications are tested at low order modes.
 5. Devices for higher optical power or with other type fiber or consigned fiber are also available.
 6. Package size may be different for different lens and optical power.

ORDERING INFORMATION (PN)

FMCO-NNNN	-S	NNN	-C	C	C	-HP	NN	-C	C	NN	-CC/CCC
Wavelength	WD	Package	Housing	Lens Type	Optical Power	Fiber Type	Fiber Sleeve	Fiber Length	Connector		
1020-1020nm	005- 5mm	S- Standard	M- Metal	G-Grin Lens	1- 1W	5- 50/125um MM Fiber	B-Bare Fiber	05=0.5m	N= None		
1030-1030nm	010-10mm		G- Glass	C-C-lens	2- 2W	6- 62.5/125um MM Fiber	L-Loose Tube	10=1.0m	SC/PC= SC/PC Connector		
1064-1064nm	015- 15mm			A-Aspherical	5- 5W	A- 105/125um, NA=0.22		15=1.5m	FC/APC=FC/APC Connector		
1150-1150nm	020- 20mm				10-10W	B-105/125um, NA=0.15		20=2.0m	LC/APC=LC/APC Connector		