

Fiber Optic Retroreflector



DATASHEET

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Agiltron Fiber Optic Retroreflector is designed to reflect light input backward through the fiber. Our retroreflectors are available with single mode (SM), polarization-maintaining (PM), or multimode (MM) fiber. A specially made mirror is used in our device that achieves high reflection up to 99% and high optical power handling up to 5W.

Applications

- Fiber Interferometer
- Fiberoptic Sensor
- Fiber Instruments

Features

- Low Insertion Loss
- High Power
- High Reliability
- Low Cost
- Environmental Stability

Specifications

Parameter	Min	Typical	Max	Unit
Central Wavelength (λ_c)	630		2200	nm
Typical Spectral Width ($\Delta\lambda$)	± 30		± 50	nm
Typical Insertion Loss (λ_c , 23°C, no connector)	0.35		2	dB
Polarization Extinction Ratio (PM Fiber)	18		30	
Reflection Percentage	96		99	%
PDL (λ_c , 23°C)	≤ 0.10			dB
Operating Temperature	-5		+70	°C
Storage Temperature	-40		+85	°C
Optical Power Handling	0.2		5	W
Package Dimensions		$\varnothing 5.5 \times L35$		mm

Rev 12/10/24

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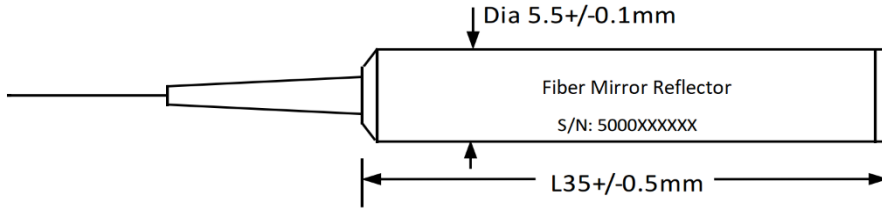
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Dimensions (mm)



*Product dimensions may change without notice. This is sometimes required for non-standard specifications.

Ordering Information

Prefix	Type	Wavelength	Reflection	Package	Fiber Type	Fiber Cover	Fiber Length	Connector
FOMR-	Regular = R High Power = H	1064nm = 1 1310nm = 3 1550nm = 5 1800nm = 2 850nm = 8 780nm = 7 980nm = 9 650nm = 6 460nm = 4 Special = 0	100% = 11 10% = 10 20% = 20 Special = 00	ø5.5x35 = 2 ø3.5x15 = 1 Special = 0	Choose from table below Special = 0	900µm Tube = 3 Bare Fiber = 1 Special = 0	0.25m = 1 0.5m = 2 1.0m = 3 Special = 0	None = 1 FC/PC = 2 FC/APC = 3 SC/PC = 4 SC/APC = 5 ST/PC = 6 LC/PC = 7 LC/UPC = U Special = 0

Fiber Type Selection Table:

01	SMF-28	34	PM1550	71	MM 50/125µm
02	SMF-28e	35	PM1950	72	MM 62.5µm
03	Corning XB	36	PM1310	73	105/125µm
04	SM450	37	PM400	74	FG105LCA
05	SM1950	38	PM480	75	FG50LGA
06	SM600	39	PM630	76	STP 50/125
07	Hi780	40	PM850		
08	SM800	41	PM980		
09	SM980	42	PM780		
10	Hi1060	43	PM350		
11	SM400	44	PM405		
12	SM780	45	PM460		
13		46			