

Fiber Optic Partial Reflector



DATASHEET

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The FOPR Partial Reflectors partially reflect a portion of the input light back towards the input end while the rest of the input light is transmitted to the output. This is achieved using a partially reflecting mirror in the light path, advantageously offer high power handling. These partial reflectors have a 780 nm ~ 2200 nm single mode wavelength range with either a 10:90 or 20:80 reflection ratio. The reflection ratio (R:T ratio) is the ratio of reflected light to transmitted light not including light lost within the device due to absorption. The white port is used as the input; while the blue is output Fiber leads are jacketed in Ø 900µm Hytrel tubing and are 1m long. Custom configurations with other wavelengths, fiber types, or R:T ratios are also available as special orders.

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	10		20	%
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		Ø5.5 x L35		mm

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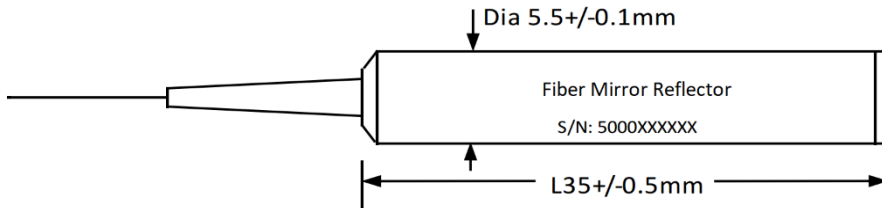
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Dimensions (mm)



*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
FOPR-	Regular = R High Power = H	1064nm = 1 1310nm = 3 1550nm = 5 780nm = 7 980nm = 9 650nm = 6 Special = 0	10% = 10 20% = 20 Special = 00	ø5.5x35 = 2 ø3.5x15 = 1 Special = 0	SMF-28 = 1 HI1060 = 2 PM1550 = A SM600 = 6 SM780 = 7 SM980 = 9 PM980 = B 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 Special = 0