

Visible/Infrared Light Single-mode Fiber Optic Coupler (400~2000nm)



FEATURES

- ✓ Low Insertion Loss
- ✓ Low PDL
- ✓ High Reliability and Stability

APPLICATIONS

- Optical Communication System
- Fiber Sensor
- Optical Power Distributor
- Fiber Amplifier

Visible/Infrared Light Single-mode Fiber Optic Coupler (50/50) Specifications

Port Configuration	1x2, or 2x2		
Center Wavelength (nm)	400~700nm (Optional), Typical Visible Light of 405, 430, 450, 457, 460, 473, 488, 532, 630, 633, 635, 650 nm	780~2000nm (Optional), Typical Infrared Light of 780, 830, 850, 980, 1064, 1480, 1570, 1625, 1700, 1590, 2000 nm	
Bandwidth (nm)	± 10		± 10
Grade	P	P	A
Insertion Loss (dB)	≤3.8	≤3.4	≤3.6
Uniformity (dB)	≤1.0	≤0.6	≤1.0
PDL (dB)	≤0.15	≤0.1	≤0.15
Fiber Type	Singlemode Fiber		
Working Temperature (°C)	-40 ~ +85		
Splitting Ratio	Insertion Loss (dB)		
	400~700 nm, Grade P	780~2000 nm, Grade P	780~2000 nm, Grade A
50/50	≤3.8	≤3.4	≤3.6
60/40	≤3.0/5.0	≤2.5/4.4	≤2.8/4.8
70/30	≤2.2/6.6	≤1.8/5.6	≤2.0/6.1
80/20	≤1.4/8.4	≤1.2/7.5	≤1.3/8.0
90/10	≤0.9/13.0	≤0.6/10.8	≤0.8/12.0
95/5	≤0.6/19.6	≤0.4/14.6	≤0.5/18.4
98/2	≤0.4/23.0	≤0.2/19.0	≤0.3/20.0
99/1	≤0.4/24.0	≤0.2/21.5	≤0.3/22.0
Pigtail Type	Package (mm)		
250µm Bare Fiber	Steel Tube, Φ3.0 × 54		
900µm Loose Tube	Steel Tube, Φ3.0 × 70 or Φ3.0 × 54		
2 mm or 3 mm Cable	Custom-sized ABS Box		



Notes: Above data are test results without connectors. The insertion loss of one pair of connector is less than 0.3 dB.

Visible/infrared light single-mode fiber optic coupler is customizable and above data is subject to change without notice.

Ordering Information									
	Port	Split Ratio	Grade	Wavelength	Fiber Type	Pigtail	Package	Fiber Length	Connector
Visible/Infrared Light Single-mode Fiber Optic Coupler	1×2	50/50	P	405nm	SMF-28e	250 μm	Φ3 × 70	0.5 m	None
	2×2	60/40	A	430nm	HI780C	900 μm	Φ3 × 54	1.0 m	LC/UPC
		70/30		473nm	HI 1060	2 mm	Custom ...	Custom ...	LC/APC
		80/20		488nm	HI 1060 FLEX	3 mm			SC/UPC
		90/10		532nm	780-HP				SC/APC
		95/5		633nm	630-HP				FC/UPC
		98/2		650nm	460-HP				FC/APC
		99/1		780nm	405-HP				ST
		Custom ...		830nm	400-HP				MU
				850nm	S405-XP				Custom ...
				980nm	SM450				
				1064nm	SM600				
				1480nm	SM650				
				1570nm	SM800				
				1625nm	SM 1950				
				1700nm	OFS980-16				
				2000nm	OFS980-20				
				Custom ...					

