

SMFC Single Mode Single Window Fiber Coupler (445 – 2100nm)

Model #: SMFC (445 -2100 nm)

Description: SMFC (445 – 2100 nm) single mode single window fiber coupler

Application: Fiber laser, sensor and test systems.

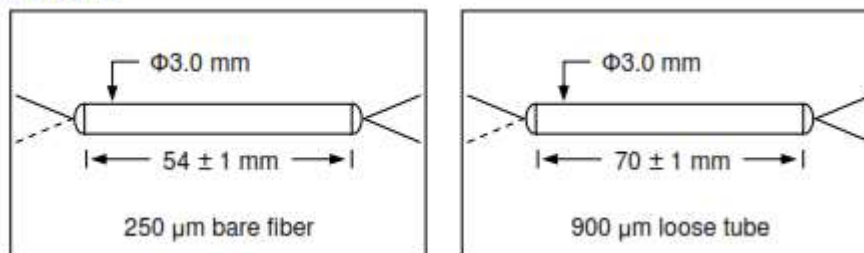
Specifications:

Parameter	Unit	Specifications			
Central Wavelength (λ_c)	nm	488, 532, 635	780, 830	980, 1064	1700, 2000
Operating Wavelength	nm	$\lambda_c \pm 5$	$\lambda_c \pm 10$	$\lambda_c \pm 10$	$\lambda_c \pm 20$
Max. Polarization Dependent Loss	dB	0.2	0.2	0.1	0.2
Max. Excess Loss	dB	0.3	0.3	0.15	0.3
Max. Excess Loss for Each Connector	dB	1.5	0.7	0.5	0.3
Max. Optical Power (CW))	mW	4000			
Max. Thermal Stability	dB/°C	0.005			
Min. Return Loss	dB	50			
Min. Directivity	dB	50			
Fiber Typeee		Single Mode Fiber			
Operating Temperature	°C	-40 to +75			
Storage Temperature	°C	-40 to + 85			
Valid for all Wavelengths in this Spec Sheet					
Coupling Ratio	%	1/99	2/98	5/95	10/90
Max. Insertion Loss	dB	22/0.3	18.5/0.35	14.5/0.5	11.5/0.75
Coupling Ratio	%	20/80	30/70	40/60	50/50
Max. Insertion Loss	dB	8.0/1.5	6.0/2.0	4.8/2.8	3.6/3/6
Dimension	mm	250 μ m bare fiber, Φ 3.0 \times 54 mm 900 μ m loose tube, Φ 3.0 \times 70 mm			

Note:

1. Each connector may contribute 5 dB lower RL.
2. The optical power is 1W only if connector is added
3. Data tested at central wavelength only.

Package Dimensions



Ordering Information: SMFC-A-BBBB-CC-D-E-F-G

A: configuration	BBBB: wavelength	CC: coupling ratio	D: connector type	E: fiber jacket	F: fiber length	G: fiber option
1 – 1 x 2	488 - 488 nm	01 – 1/99	1 - FC/UPC	B – 250 μ m bare fiber	Q – 0.75 m	1 – Nufern 460-HP
2 – 2 x 2	532 – 532 nm	02 – 2/98	2 - FC/APC	L - 900 μ m loss tube	1 – 1.0 m	2 – Nufern 630-HP
	635 – 635 nm	05 – 5/95	3 - SC/UPC	X - other	X - other	3 – Corning HI 780C
	780 – 780 nm	10 – 10/90	4 - SC/APC			4 – Corning HI

						1060
	830 – 830 nm	20 – 20/80	N - none			5 – HI 1060 flex fiber
	980 – 980 nm	30 – 30/70	X - other			6 – Corning SMF-28
	1064-1064 nm	40 – 40/60				7 – Nufern SM 1950
	1700-1700 nm	50 - 50/50				X - other
	2000-2000 nm	XX - other				
	XX - other					