

Special Wavelength Fiber Coupler SMC

Model #: SMC

Description: Single mode special wavelength fiber coupler SMC, wavelength 445 – 2100nm, Low excess loss, high power handling, high stability and reliability

Application: Power Monitoring, Splitter, Fixed Attenuation, Optical instruments.

Specifications:

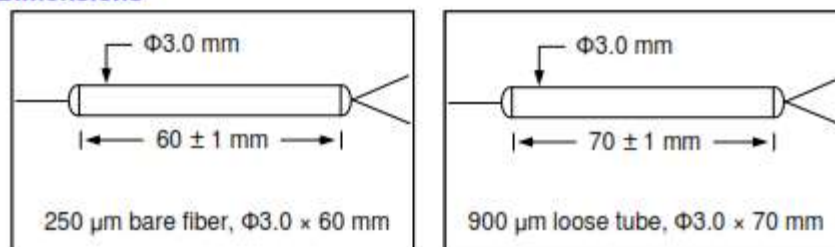
Parameter	Unit	Specifications			
Central Wavelength	nm	488, 532, 638	780, 830	980, 1064	1700, 2000
Operating Wavelength	nm	$\lambda_c \pm 5$	$\lambda_c \pm 10$	$\lambda_c \pm 10$	$\lambda_c \pm 20$
Max. Polarization Dependent Loss	dB	0.2	0.2	0.1	0.2
Max. Excess Loss	dB	0.3	0.3	0.15	0.3
Max. Excess Loss for Each Connector	dB	1.5	0.7	0.5	0.3
Max. Thermal Stability	dB/°C	0.005			
Min. Return Loss	dB	50			
Min. Directivity	dB	50			
Max. Optical Power (CW))	mW	4000			
Operating Temperature	°C	-40 to +70			
Storage Temperature	°C	-40 to +85			
Dimension	mm	250 μ m bare fiber, Φ 3.0 \times 60 mm 900 μ m loose tube, Φ 3.0 \times 70 mm			
Fiber Type (Common and Signal Port)		Singlemode Fiber			
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	10.5/0.75
Coupling Ratio	dB	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

Note: each connector may contribute extra 5 dB lower RL.

The optical power handling is 1W if connector added. For visible wavelengths, that will be 50 mW.

Data tested at central wavelength only.

Package Dimensions



Ordering Information: SMC-A-BBB-CC-D-E-F-G

A: configuration	BBB: wavelength	CC: coupling ratio	D: connector type	E: fiber jacket	F: fiber length	G: fiber type
1 – 1 x 2	488 – 488 nm	01 – 1/99	1 - FC/UPC	B – 250 μ m bare fiber	Q – 0.75 m	1 – Nuferm 460-HP fiber
2 – 2 x 2	532 – 532 nm	02 – 2/98	2 - FC/APC	L - 900 μ m loss tube	1 – 1.0 m	2 – Nuferm 630-HP fiber

	635 – 635 nm	05 – 5/95	3 - SC/UPC	X - other	1 – 1.0 m	3 – Corning HI 780C
	780 nm	10 – 10/90	4 - SC/APC		X - other	4 – Corning HI 1060
	830 nm	20 – 20/80	N - none			5 – Corning HI 1060 flex
	980 nm	30 – 30/70	X - other			6 – Corning SMF-28
	1064 nm	40 – 40/60				7 – Nufern SM 1950
	1700 nm	50 - 50/50				X - other
	2000 nm	XX - other				
	XXXX-other					