



## Single Mode Coupler 980 or 1060nm (SMC Series)

Rev 11

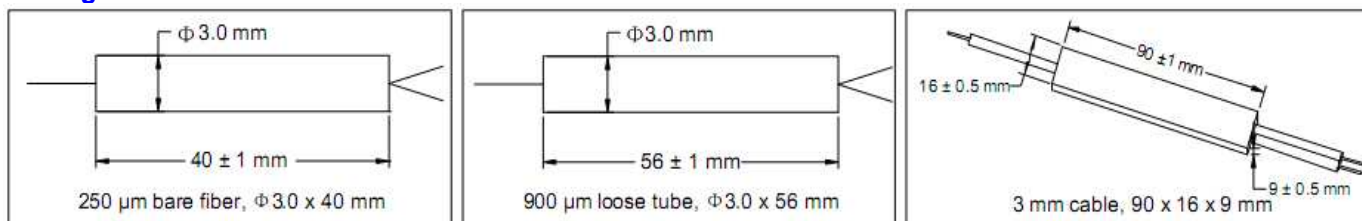
The Single Mode Coupler offers very low insertion loss, low polarization dependence and excellent environmental stability. Accurate coupling ratio from 50/50 to 1/99 are available with very good uniformity in a wide wavelength range. These components find extensive applications to perform power splitting and monitoring functions in all kinds of optical communication systems.

### Specifications

Parameter	Unit	Value					
Center Wavelength ( $\lambda_c$ )	nm	980 or 1060					
Operating Wavelength	nm	$\lambda_c \pm 10$					
Coupling Ratio	%	01/99	02/98	03/97	05/95	10/90	
Max. Insertion Loss	dB	21.9/0.25	18.5/0.3	16.5/0.35	14.5/0.45	11/0.7	
Coupling Ratio	%	20/80	30/70	40/60	50/50		
Max. Insertion Loss	dB	7.7/1.3	5.8/2.0	4.5/2.7	3.5/3.5		
Max. PDL (Tap/Through Port)	dB	0.10					
Thermal Stability	dB/°C	$\leq 0.002$ over $-5^\circ\text{C}$ to $+70^\circ\text{C}$					
Min. Return Loss	dB	50					
Min. Directivity	1 x 2	55					
	2 x 2	60					
Max. Optical Power (Continuous Wave)	mW	300					
Package Dimensions		250 $\mu\text{m}$ bare fiber, $\Phi 3.0 \times 40$ mm					
		900 $\mu\text{m}$ loose tube, $\Phi 3.0 \times 56$ mm					
		3 mm cable, $90 \times 16 \times 9$ mm					
Operating Temperature	°C	-5 to +70					
Storage Temperature	°C	-40 to +85					

\*IL is 0.5 dB higher, RL is 5 dB lower for each connector added.

### Package Dimensions



### Ordering Information

**SMC**-①-②②-③③-④-⑤-⑥-⑦

①: Configuration	②②: Wavelength	③③: Coupling Ratio	④: Connector Type
1 - 1 x 2	98 - 980 nm	01 - 01/99    20 - 20/80	1 - FC/UPC
2 - 2 x 2	06 - 1060 nm	02 - 02/98    30 - 30/70	2 - FC/APC
	SS - Specify	03 - 03/97    40 - 40/60	3 - SC/UPC
		05 - 05/95    50 - 50/50	4 - SC/APC
		10 - 10/90    SS - Specify	N - None
			S - Specify
⑤: Fiber Jacket	⑥: Fiber Length	⑦: Fiber Option	
B - 250 $\mu\text{m}$ bare fiber	1 - 1.0 m	H1 - HI 1060 Flex fiber(N.A. 0.20)	
L - 900 $\mu\text{m}$ loose tube	S - Specify	O - OFS 980 fiber	
C - 3 mm cable			
S - Specify			