



Singlemode Coupler 980 or 1060 nm (SMC Series)

Rev 10

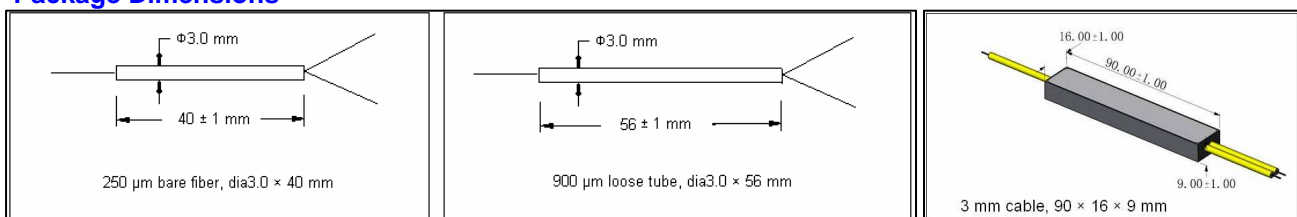
The Singlemode Coupler offers very low insertion loss, low polarization dependence and excellent environmental stability. Accurate coupling ratio from 50/50 to 1/99 are available with very good uniformity in a wide wavelength range. These components find extensive applications to perform power splitting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

Specifications

Parameter	Unit	Value				
Center Wavelength (λ_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	≤ 0.002 over -5°C to $+70^\circ\text{C}$				
Min. Return Loss	dB	50				
Directivity 1 x 2	dB	55				
2 x 2	dB	60				
Max. Optical Power (Continuous Wave)	mW	300				
Fiber Type		HI 1060 Flex fiber or OFS 980 fiber				
Package Dimensions	mm	250 μm bare fiber, dia3.0 x 40 mm 900 μm loose tube, dia3.0 x 56 mm 3 mm cable, 90 x 16 x 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
⑤: Fiber Jacket	⑥: Fiber Length	10 - 10/90 SS - Specify	N - None
B - 250 μm bare fiber	1 - 1 m		S - Specify
L - 900 μm loose tube	S - Specify	⑦: Fiber Option	
C - 3 mm cable		H - HI 1060 Flex fiber	
S - Specify		O - OFS 980 fiber	