



## Singlemode Dual Window Wavelength Flattened Coupler (SDC Series)

Rev 10

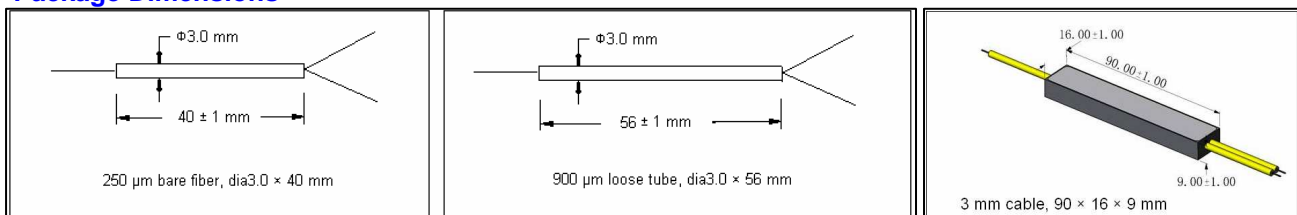
The Singlemode Dual Window Wavelength Flattened Couplers offer very low insertion loss, low polarization dependence and excellent environmental stability. Accurate coupling ratio from 50/50 to 1/99 are available with very good uniformity in a wide wavelength range of both 1310 & 1550 nm windows. These 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	1310 & 1550 or Specify				
Operating Wavelength	nm	$\lambda_c \pm 40$				
Coupling Ratio	%	01/99	02/98	03/97	05/95	10/90
Max. Insertion Loss	dB	22/0.19	19/0.25	17.5/0.3	14.5/0.4	11/0.75
Coupling Ratio	%	20/80	30/70	40/60	50/50	
Max. Insertion Loss	dB	7.8/1.3	5.9/1.9	4.6/2.7	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				
Directivity 1 x 2	dB	55				
2 x 2	dB	60				
Max. Optical Power (Continuous Wave)	mW	300				
Fiber Type		SMF-28 fiber				
Package Dimensions	mm	250 $\mu\text{m}$ bare fiber, dia3.0 x 40 mm 900 $\mu\text{m}$ 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 0.3 dB higher, RL is 5 dB lower for each connector added.

### Package Dimensions



### Ordering Information

SDC-①-②②②②-③③-④-⑤-⑥

①: Configuration	②②②②: Wavelength	③③: Coupling Ratio	④: Connector Type
1 - 1 x 2	3155 - 1310 & 1550 nm	01 - 01/99    20 - 20/80	1 - FC/UPC
2 - 2 x 2	SSSS - Specify	02 - 02/98    30 - 30/70	2 - FC/APC
		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 $\mu\text{m}$ bare fiber	1 - 1 m		S - Specify
L - 900 $\mu\text{m}$ loose tube	S - Specify		
C - 3 mm cable			
S - Specify			