



Single Mode Dual Window Wavelength Flattened Coupler (SDC Series)

Rev 11

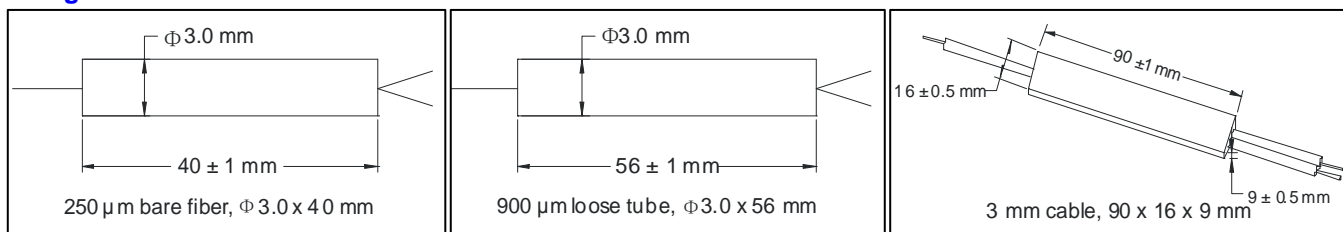
The Single Mode Dual Window Wavelength Flattened Couplers offer very low insertion loss, low polarization dependence and excellent environmental stability. Accurate coupling ratio from 50/50 to 1/99 are available with very good uniformity in a wide wavelength range of both 1310 nm and 1550 nm windows. 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 (λ_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	≤ 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		SMF-28 fiber				
Package Dimensions	mm	250 μm bare fiber, $\Phi 3.0 \times 40$ mm 900 μm 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 0.3 dB higher, RL is 5 dB lower for each connector added.

Package Dimensions



Ordering Information

SDC-①-②②-③③-④-⑤-⑥

①: Configuration	②②: 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	SS - Specify	02 - 02/98 30 - 30/70	2 - FC/APC
		03 - 03/97 40 - 40/60	3 - SC/UPC
⑤: Fiber Type	⑥: Fiber Length	05 - 05/95 50 - 50/50	4 - SC/APC
B - 250 μm bare fiber	1 - 1 m	10 - 10/90 SS - Specify	N - None
L - 900 μm loose tube	S - Specify		S - Specify
C - 3 mm cable			
S - Specify			