



Single Mode Dual Window Wavelength Flattened Coupler (SDC series)

The SDC Single Mode Dual Window Wavelength Flattened Couplers are based on BTF technology. They 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 tight uniformity in a wide wavelength range of both 1310 nm and 1550 nm windows. These components find extensive application to perform power splitting and monitoring functions in all kinds of optical communication systems.



Specifications

Parameters	Unit	Values			
Grade		P			
Operating Wavelength	nm	1310 and 1550			
Bandwidth	nm	± 40			
Coupling Ratio	%	01/99	05/95	10/90	50/50
Max. Insertion Loss	dB	23.5/0.3	15.2/0.4	11.3/0.6	3.6
Max. PDL	dB	0.35/0.15	0.35/0.15	0.3/0.15	0.15
Max. Excess Loss	dB	0.2			
Thermal Stability	dB/	0.002dB/ over -5 °C to +70 °C			
Directivity	1X2	55 dB			
	2X2	65 dB			
Fiber length		1 meter, others on request			
Fiber type		Corning SMF-28			
Package Dimensions		250um bare fiber and dia. 3.0 mm x 55mm			
		900um loose tube and dia. 3.0mm X 60mm			
		3mm loose cable and 95.5mm X 11.8mm X6.3mm			
Operating Temperature		-5 °C to +70 °C			

*The above specification is for coupler without connector

*For devices with connectors, insertion loss will be 0.3dB higher, RL will be 5dB lower.

Ordering information

SDC- - - - - -

: port

1 - 1X2

2 - 2X2

: Grade

P- P grade

S -Specify

:Fiber type

B - 250 um bare fiber

L - 900 um loose tube

C - 3mm loose cable

: Wavelength

3155 - 1310&1550

SSSS - Specify

:Connector Type

1 - FC/UPC

2 - ST/UPC

3 - LC/UPC

4 - FC/APC

5 - SC/APC

6 - SC/UPC

N - None

S - Specify

: Coupling Ratio

01 - 01/99

05 - 05/95

10 - 10/90

50 - 50/50

SS - Specify

:Fiber Length

1 - 1m

S - Specify

: Fiber Option

F - Corning SMF-28

S - Specify