

Single Mode Dual Window Wavelength Flattened Coupler (DL-SDC-T-U-VV-WW-X-Y-Z)

The Single Mode Dual Window Wavelength Flattened Couplers offers accurate coupling ratio from 50/50 to 1/99 and are available with very good uniformity in a wide wavelength range of both 1310 nm and 1550 nm windows. It also has very low insertion loss, low polarization dependence and excellent environmental stability. It can be used to perform power splitting and monitoring functions in all kinds of optical communication systems.

A. Specifications

Parameter	Value					Unit
Center Wavelength (λ_c)	1310 & 1550 or Specify					nm
Operating Wavelength	$\lambda_c \pm 40$					nm
Coupling Ratio	01/99	02/98	03/97	05/95	10/90	%
Max. Insertion Loss	22/0.19	19/0.25	17.5/0.3	14.5/0.4	11/0.75	dB
Coupling Ratio	20/80	30/70	40/60	50/50		%
Max. Insertion Loss	7.8/1.3	5.9/1.9	4.6/2.7	3.5/3.5		dB
Max. PDL (Tap/Through Port)	0.10					dB
Thermal Stability	≤ 0.002 over -5°C to $+70^\circ\text{C}$					dB/ $^\circ\text{C}$
Min. Return Loss	50					dB
Directivity 1 \times 2	55					dB
2 \times 2	60					dB
Max. Optical Power (Continuous Wave)	300					mW
Operating Temperature	-5 to $+70$					$^\circ\text{C}$
Storage Temperature	-40 to $+85$					$^\circ\text{C}$

*IL is 0.3 dB higher, RL is 5 dB lower for each connector added.

B. Ordering Information

DL-SDC-T-U-VV-WW-X-Y-Z

T: Package Dimensions

- 1 - 250 μm bare fiber, dia3.0 \times 40 mm
- 2 - 900 μm loose tube, dia3.0 \times 54 mm
- 3 - 3 mm cable, 90 \times 16 \times 9 mm

U: Configuration

- 1 - 1 \times 2
- 2 - 2 \times 2

VV: Wavelength

- 31 - 1310 nm
- 55 - 1550 nm
- SS - Specify

WW: Coupling Ratio

- 01 - 01/99
- 02 - 02/98
- 03 - 03/97
- 05 - 05/95
- 10 - 10/90
- 20 - 20/80
- 30 - 30/70
- 40 - 40/60
- 50 - 50/50
- SS - Specify

X: Connector Type

- 1 - FC/UPC
- 2 - FC/APC
- 3 - SC/UPC
- 4 - SC/APC
- N - None
- S - Specify

Y: Fiber Type (SMF-28)

- B - 250 μm bare fiber
- L - 900 μm loose tube
- C - 3 mm cable
- S - Specify

Z: Fiber Length

- 1 - 1 m
- S - Specify