

# Mini Size Dual Window Coupler (DWC)

## Description

Dual window coupler (DWC) is built by asymmetric coupling technique. The operating bandwidth of this coupler is expanding to  $\pm 40\text{nm}$ . The DWC coupler has the same coupling ratio on both 1310nm and 1550nm communication windows.

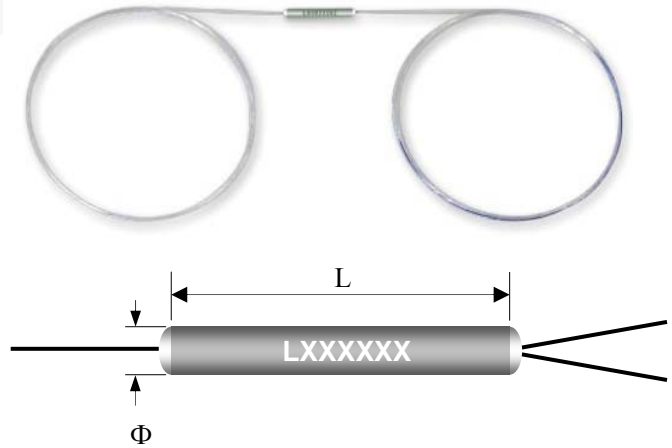
The mini size DWC is designed for the compact optical modules and communication systems.

## Features

- Low insertion loss
- Mini size
- Low excess loss
- Low PDL
- Dual operating window
- High stability and reliability

## Applications

- Mini size EDFA
- Mini size transmitter/receiver module
- Optical communication systems
- Testing instruments



## Specifications

Parameter					
Operating wavelength (nm)		1310 and 1550			
Operating bandwidth (nm)		$\pm 40$			
Package size ( $\Phi \times L$ ) (mm)		$\Phi 3.0/\Phi 2.4 \times 30$		$\Phi 2.4 \times 25$	
Grade		P	A	P	A
Typical excess loss (dB)		0.1	0.15	0.15	0.25
Insertion loss (dB)	50/50	$\leq 3.60$	$\leq 3.80$	$\leq 3.70$	$\leq 3.90$
	40/60	$\leq 4.70/2.70$	$\leq 4.90/2.90$	$\leq 4.70/2.80$	$\leq 5.00/3.00$
	30/70	$\leq 6.00/1.90$	$\leq 6.30/2.10$	$\leq 6.10/2.10$	$\leq 6.40/2.20$
	20/80	$\leq 7.90/1.30$	$\leq 8.40/1.40$	$\leq 8.00/1.40$	$\leq 8.50/1.50$
	10/90	9.20~ 11.30/ $\leq 0.75$	8.75~ 12.00/ $\leq 0.80$	9.25~ 11.50/ $\leq 0.80$	8.80~ 12.00/ $\leq 0.85$
	5/95	12.05~ 14.35/ $\leq 0.40$	11.55~ 14.85/ $\leq 0.50$	12.10~ 14.40/ $\leq 0.50$	11.60~ 14.90/ $\leq 0.55$
	3/97	14.10~ 16.70/ $\leq 0.35$	13.55~ 17.25/ $\leq 0.45$	14.15~ 16.75/ $\leq 0.40$	13.60~ 17.30/ $\leq 0.45$
	2/98	15.75~ 18.65/ $\leq 0.30$	15.10~ 19.25/ $\leq 0.40$	15.80~ 18.70/ $\leq 0.35$	15.15~ 19.30/ $\leq 0.40$
	1/99	18.60~ 21.80/ $\leq 0.25$	17.90~ 22.50/ $\leq 0.35$	18.65~ 21.85/ $\leq 0.30$	17.95~ 22.55/ $\leq 0.35$
PDL (dB)		$\leq 0.15$	$\leq 0.2$	$\leq 0.15$	$\leq 0.2$
Directivity (dB)		$\geq 55$			
Operating temperature ( $^{\circ}\text{C}$ )		-40~+85			
Configuration		1×2 or 2×2			
Fiber lead length		1 meter, others on request			

\*The above specification is without connector

\*\*Other specifications can be made on customer request.

## Ordering Information

DWC-X-XXX-XXX-XX/XX-X-X-XX/XXX-XX\*XX

