

## Mini Size Dual Window Coupler (DWC)



### Overview:

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:

- \* 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

**Specification:**

Parameter					
Operating wavelength (nm)		1310 and 1550			
Operating bandwidth (nm)		±40			
Package size (φ × L) (mm)		φ2.4 × 30		φ2.4 × 25	
Grade		P	A	P	A
Typical excess loss (dB)		0.10	0.15	0.15	0.25
Insertion loss (dB)	50/50	< 3.6	< 3.8	< 3.7	< 3.9
	40/60	< 4.7/2.7	< 4.9/2.9	< 4.7/2.8	< 5.0/3.0
	30/70	< 6.0/1.9	< 6.3/2.1	< 6.1/2.1	< 6.4/2.2
	20/80	< 7.9/1.2	< 8.4/1.4	/	/
	10/90	< 11.3/0.65	< 12.0/0.8	/	/
	5/95	< 14.6/0.4	< 15.5/0.5	/	/
	2/98	< 18.8/0.3	< 19.5/0.4	/	/
	1/99	< 22.5/0.25	< 23.5/0.35	/	/
PDL (dB)		< 0.15	< 0.20	< 0.15	< 0.20
Directivity (dB)		> 55			
Operating temperature (°C)		- 40 ~ +85			
Configuration		1 × 2 or 2 × 2			
Fiber lead length		1 meter, others on request			

\*Other specifications can be made on customer request.

**Ordering Information:**

