Mini Size Dual Window Coupler (DWC)

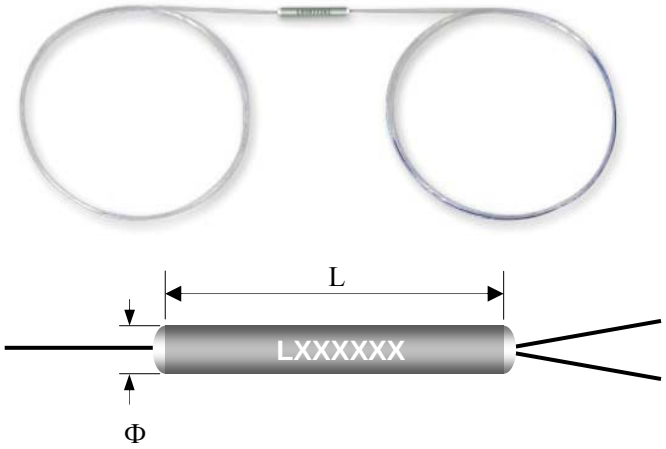
Description

Dual window coupler (DWC) is built by asymmetric coupling technique. The operating bandwidth of this coupler is expanding to ±40nm. 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)		±40			
Package size (Φ×L) (mm)		Φ3.0/Φ2.4×30		Φ2.4×25	
Grade		P	A	P	A
Typical excess loss (dB)		0.1	0.15	0.15	0.25
Insertion loss (dB)	50/50	≤3.60	≤3.80	≤3.70	≤3.90
	40/60	≤4.70/2.70	≤4.90/2.90	≤4.70/2.80	≤5.00/3.00
	30/70	≤6.00/1.90	≤6.30/2.10	≤6.10/2.10	≤6.40/2.20
	20/80	≤7.90/1.30	≤8.40/1.40	≤8.00/1.40	≤8.50/1.50
	10/90	9.20~ 11.30/≤0.75	8.75~ 12.00/≤0.80	9.25~ 11.50/≤0.80	8.80~ 12.00/≤0.85
	5/95	12.05~ 14.35/≤0.40	11.55~ 14.85/≤0.50	12.10~ 14.40/≤0.50	11.60~ 14.90/≤0.55
	3/97	14.10~ 16.70/≤0.35	13.55~ 17.25/≤0.45	14.15~ 16.75/≤0.40	13.60~ 17.30/≤0.45
	2/98	15.75~ 18.65/≤0.30	15.10~ 19.25/≤0.40	15.80~ 18.70/≤0.35	15.15~ 19.30/≤0.40
	1/99	18.60~ 21.80/≤0.25	17.90~ 22.50/≤0.35	18.65~ 21.85/≤0.30	17.95~ 22.55/≤0.35
PDL (dB)		≤0.15	≤0.2	≤0.15	≤0.2
Directivity (dB)		≥55			
Operating temperature (℃)		-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