

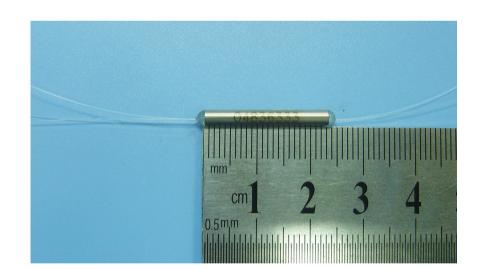


Mini Size Dual Window Coupler (MSDWC)

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.





Key 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

For more Info

Please contact us at:

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E-mail: sales@dkphotonics.com https://www.dkphotonics.com

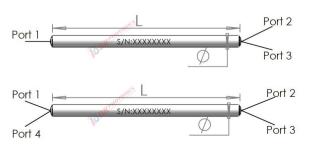
Add.:

4F, Bldg. 18, Qinghu Industrial Park,

Dahe Road, Longhua Dis.,

Shenzhen, China 518109

Package Dimension



*Due to ongoing design improvements, the package size is subject to change. Please contact DK Photonics for confirmation if you have special requirements.





Mini Size Dual Window Coupler (MSDWC)

Performance Specifications

Parameter		Unit	Values						
Operating wavelength		nm	1310 and 1550						
Operating bandwidth		nm	±40						
Configuration		-	1×2 or 2×2						
Package dimensions (Φ×L)		mm	Ф3.0/Ф	2.4×30	Ф2.4×25				
Grade		-	P A		Р	Α			
Typical excess loss		dB	0.1	0.15	0.15	0.25			
	50/50	dB	≤3.60	≤3.80	≤3.70	≤3.90			
	40/60	dB	≤4.70/2.70	≤4.90/2.90	≤4.70/2.80	≤5.00/3.00			
	30/70	dB	≤6.00/1.90	≤6.30/2.10	≤6.10/2.10	≤6.40/2.20			
	20/80	dB	≤7.90/1.30	≤8.40/1.40	≤8.00/1.40	≤8.50/1.50			
Insertion loss	10/90	dB	9.20~11.30/≤0.75	8.75~12.00/≤0.80	9.25~11.50/≤0.85	8.80~12.00/≤0.85			
	5/95	dB	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	dB	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	dB	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	dB	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						
Maximum Power Handling		W	1						
Operating temperature		°C	-40 ~ +85						

- 1. Above specification are for device without connector, and may change without notice.
- 2. Other specifications can be made on customer request.
- 3. IL is 0.3 dB higher and RL is 5 dB lower for each connector added.

Order information P/N: FBTC-①-②-③-④-⑤-⑥-⑦-⑧-⑨-⑩

When you inquire, please provide the correct P/N number according to our ordering information, and attach the appropriate description would be better. If need any connector, we do not recommend choosing a 250µm bare fiber pigtail. For mini size coupler, typical applications are bare fibers without connector.

1	2	3	4	(5)	6	7	8	9	1
Туре	Grade	Port	Wavelength	Coupling Ratio (%)	Fiber Type	Pigtails Diameter	Fiber Length	Connector	Package
MSDWC	P: P Grade A:A Grade	102:1x2 202:2x2	13:1310nm 15:1550nm	50:50/50 40:40/60 30:30/70 20:20/80 10:10/90 05:5/95 02:2/98 01:1/99 XX: Others	S28:SMF-28 X:Others	25:250µm	05:0.5m 10:1.0m 15:1.5m XX: Others	00:None FP: FC/PC FA: FC/APC SP: SC/PC SA: SC/APC ST: ST/PC LP: LC/PC LA: LC/APC XX: Others	2.4x25 2.4x30 3.0x30

Part Number Example: FBTC-MSDWC-P-202-13-01-S28-25-10-00-2.4x30

Description: 2x2 mini size dual window coupler, P grade, 1310+/-40nm, 1/99 coupling ratio, SMF-28e fiber, with bare fiber, 1.0m length fiber pigtails, without connector. 2.4x30mm package.

Ordering Information for Custom Parts

If you need to customize other specifications, please provide detailed description for your requirement.