

Mini Size Standard Coupler (MSSSC)

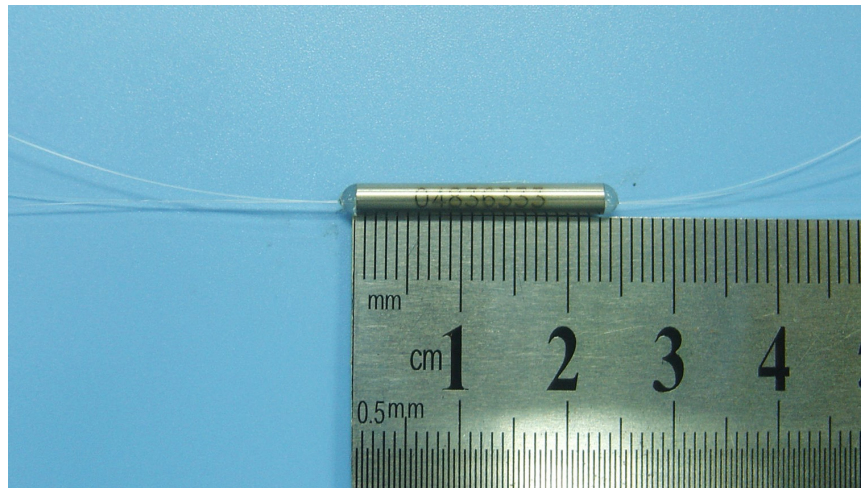
Mini size couplers are designed to meet the requirement of the optical modules and fiber systems where need the small coupler package size. DK Photonics develops the mini size SSC with high stability and reliability.

Key Features

- Mini size
- Low excess loss
- Low PDL
- 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:

Tel: +86-755-23736280

Fax: +86-755-26746512

E-mail: sales@dkphotonics.com

<https://www.dkphotonics.com>

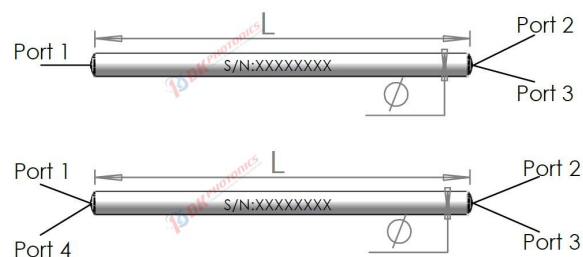
Add.:

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.

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Performance Specifications

Parameter	Unit	Values			
Operating wavelength	nm	1310 or 1550, others on request			
Operating bandwidth	nm	±15			
Configuration	-	1×2 or 2×2			
Package size (Φ×L)	mm	Φ3.0/Φ2.4×30; Φ2.4×25		Φ2.4×22; Φ2.0×18	
Grade	-	P	A	P	A
Typical excess loss	dB	0.1	0.15	0.15	0.25
50/50	dB	≤3.50	≤3.70	≤3.60	≤3.80
40/60	dB	≤4.50/2.70	≤4.80/2.90	≤4.60/2.80	≤4.90/3.00
30/70	dB	≤5.80/2.00	≤6.10/2.10	≤5.90/2.10	≤6.30/2.20
20/80	dB	≤7.70/1.25	≤8.00/1.30	≤7.80/1.30	≤8.20/1.40
Insertion loss	dB	9.35~11.15/≤0.70	9.15~11.35/≤0.85	9.50~11.30/≤0.75	9.30~11.50/≤0.85
5/95	dB	12.15~14.35/≤0.45	11.90~14.60/≤0.55	12.30~14.50/≤0.50	12.05~14.75/≤0.55
3/97	dB	14.20~16.70/≤0.35	13.90~17.00/≤0.45	14.35~16.85/≤0.40	14.05~17.15/≤0.45
2/98	dB	15.85~18.50/≤0.30	15.50~19.00/≤0.35	16.00~18.80/≤0.35	15.65~19.15/≤0.40
1/99	dB	18.70~21.50/≤0.25	18.30~22.20/≤0.30	18.85~21.80/≤0.30	18.45~22.35/≤0.35
PDL	dB	≤0.1	≤0.15	≤0.1	≤0.15
Directivity	dB	≥50			
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	⑩
Type	Grade	Port	Wavelength	Coupling Ratio (%)	Fiber Type	Pigtails Diameter	Fiber Length	Connector	Package
MSSSC	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 XX: Others	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	Φ2.4x25 Φ2.4x30 Φ3.0x30

Part Number Example: FBTC-MSSSC-P-202-13-01-S28-25-10-00-2.4x25

Description: 2x2 mini size standard coupler, P grade, 1310±15nm, 1/99 coupling ratio, SMF-28e fiber, with bare fiber, 1.0m length fiber pigtails, without connector. Φ2.4x25mm packages.

Ordering Information for Custom Parts

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