



- Low Insertion Loss
- Low Polarization Dependent Loss
- All Split Ratios Available
- High stability & Reliability



1480nm Single-Mode Fused Coupler

DK Photonics single-mode fused coupler are used to split off a portion of light to allow for optical monitoring and feedback. These devices are used extensively in fiber amplifier power control, and in transmission equipment for performance monitoring and feedback control. Our ultra-low polarization dependent loss couplers offer low levels of sensitivity to polarization, enable more effective monitoring and management of optical networks. These couplers are available in a wide range of split ratios, lengths, and packaging. Custom terminations are also available.

Applications

- Fiber Laser
- Fiber amplifier
- Testing Instrumentations



For more Info

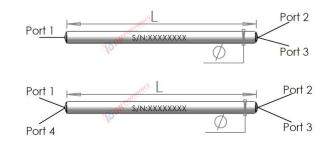
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Package Dimension



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





Performance Specifications

1480nm Single-Mode Fused Coupler

Parameter		Unit	Values			
Grade		-	Р	A		
Operating wavelength		nm	1450,1480,others on request			
Operating bandwidth		nm	± 15			
Typical excess loss		dB	0.07	0.10		
Insertion loss @ Coupling Ratio (%)	50/50	dB	≤3.4	≤3.6		
	45/55	dB	≤4.1/3.1	≤4.3/3.3		
	40/60	dB	≤4.4/2.6	≤4.7/2.8		
	35/65	dB	≤5.2/2.3	≤5.5/2.5		
	33/67	dB	≤5.4/2.2	≤5.7/2.3		
	30/70	dB	≤5.7/1.9	≤6.0/2.0		
	25/75	dB	≤6.6/1.7	≤7.0/1.8		
	20/80	dB	≤7.6/1.25	≤8.0/1.35		
	15/85	dB	≤9.2/1.0	≤9.6/1.2		
	10/90	dB	9.20~11.00/≤0.65	9.00~11.20/≤0.8		
	5/95	dB	12.00~14.20/≤0.4	11.75~14.45/≤0.5		
	3/97	dB	14.05~16.55/≤0.30	13.75~16.85/≤0.4		
	2/98	dB	15.70~18.50/≤0.25	15.35~18.85/≤0.35		
	1/99	dB	18.55~21.50/≤0.20	18.15~22.00/≤0.3		
PDL		dB	≤0.10	≤0.15		
Return Loss		dB	≥50			
Directivity		dB	≥55			
Max. Optical Power (CW)		W	0.5,2,5,10			
Fiber Type		-	SMF-28e or other			
Operating Temperature		°C	-20~+75			
Storage Temperature		°C	-40~+85			
Package Dimension		mm	Φ3x54(bare fiber), Φ3x60(0.9mm loose tube)			

1. Above specifications are for device without connector.

2. For devices with connectors, IL will be 0.3dB higher, RL will be 5dB lower. Powers transmit through the connector less than 2W.

Order information

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

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.

1	2	3	4	5	6	Ō	8	9
Grade	Port	Wavelength	Power Handling	Coupling Ratio(%)	Fiber Type	Pigtails Diameter	Fiber Length	Connector
P: P	102:1x2	14:1480nm	L:<0.5W	50:50/50	S28: SMF-28e	25:250µm	05:0.5m	00: None
Grade	202:2x2	XX: Others	2:2W	40:40/60	X: Others	90:900µm	10:1.0m	FP: FC/PC
A:A Grade			5:5W	30:30/70		XX: Others	15:1.5m	FA: FC/APC
			10:10W	20:20/80			XX: Others	SP: SC/PC
			20:20W	10:10/90				SA: SC/APC
				05:5/95				LP: LC/PC
				02:2/98				LA: LC/APC
				01:1/99				XX: Others

Part Number Example: FBTC -P-102-48-L-50-S28-90-10-FA

Description: 1X2 Single Mode Standard Coupler, 1480nm, P grade,1x2, 0.5w handling power,50:50, SMF-28e fiber, with 0.9mm OD loose tube,1.0m length fiber pigtails, FC/APC connectors at all ports.

Ordering Information for Custom Parts

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