



1900~2050nm High power SM fiber Fused Coupler

Key Features

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

DK Photonics High power SM fiber 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. High power SM fiber Fused Coupler is widely used for High Power Fiber Laser and High-Power Fiber amplifier.

If you do not see a standard High power SM fiber Fused Coupler that meets your needs, we welcome the opportunity to review your desired specification and quote a custom fused Coupler. Requests for custom fiber pigtailed, different wavelengths, tap Ratio and handling power of operation or other specific needs will be readily addressed.

Applications

- High Power Fiber Laser
- High Power Fiber amplifier
- Testing Instrumentations



For more Info

Please contact us at:

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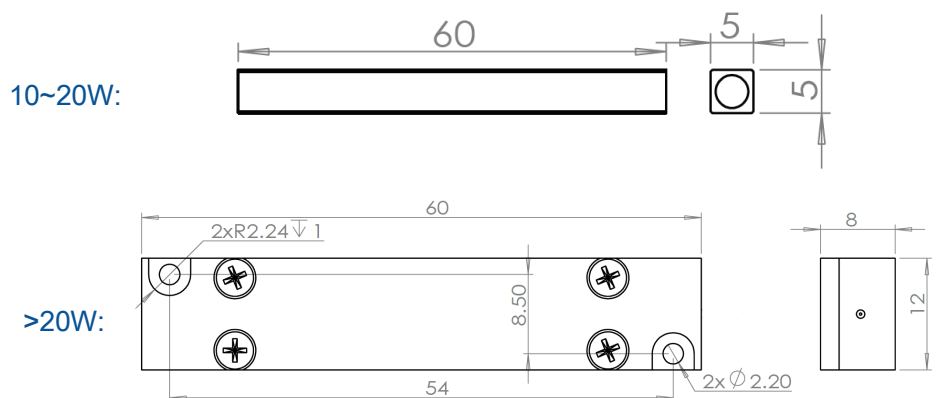
Add.:

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
Grade	-	P
Configuration	-	1x2 or 2x2
Operating wavelength	nm	1900,1950,2000,2050, others on request
Operating bandwidth	nm	± 15
Coupling Ratio	%	1%~50%
Typical excess loss	dB	0.10
Max. excess loss	dB	0.20
Max. Insertion Loss	dB	IL related to CR
PDL	dB	≤0.1
Return Loss	dB	≥50
Directivity	dB	≥55
Max. Optical Power (CW)	W	10,20,30
Fiber Type	-	SMF-28e, SM1950, SM-GDF-10/130-15M or other
Operating Temperature	°C	-20~+75
Storage Temperature	°C	-40~+85
Package Dimension	mm	60x5x5(10~20W), 60x12X8(30)

- Above specifications are for device without connector.
- For devices with connectors, IL will be 0.3dB higher, RL will be 5dB lower. Powers transmit through the connector less than 2W.
- If there is pulse application, please be sure to inform us of pulse energy and peak power.

Order information

P/N: HPFBTC①-②-③-④-⑤-⑥-⑦-⑧-⑨-⑩

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 bare fiber pigtail. For high power applications, we recommend direct splicing without connectors.

①	②	③	④	⑤	⑥	⑦	⑧	⑩
Grade	Port	Wavelength	Power Handling	Coupling Ratio(%)	Fiber Type	Pigtails Diameter	Fiber Length	Connector
P: P	102:1x2	1900:1900nm	10:10W	50:50/50	S28: SMF-28e	25:250μm	05:0.5m	00: None
Grade	202:2x2	1950:1950nm	20:20W	40:40/60	S19: SM1950	90:900μm	10:1.0m	FP: FC/PC
		2000:2000nm	30:30W	30:30/70	XXX: fiber	XX: Others	15:1.5m	FA: FC/APC
		2050:2050nm	50:50W	20:20/80	code		XX: Others	XX: Others
		XX: Others		10:10/90				
				05:5/95				
				02:2/98				
				01:1/99				
				XX: Others				

Part Number Example: HPFBTC -P-102-1950-20-50-S19-25-10-00

Description: 2000nm high power single mode fused coupler, P grade, 1x2, 20w handling power, 50:50, SM1950 fiber, with bare fiber, 1.0m length fiber pigtails, no connectors at all ports.

Ordering Information for Custom Parts

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