



## 1310~1550nm 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:

Tel: +86-755-23736280

Fax: +86-755-26746512

E-mail: [sales@dkphotonics.com](mailto:sales@dkphotonics.com)

<https://www.dkphotonics.com>

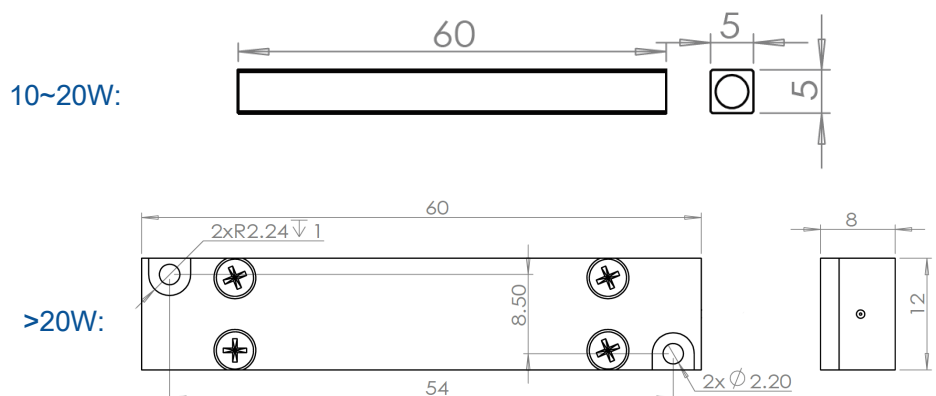
Add.:

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
Grade	-	P
Configuration	-	1x2 or 2x2
Operating wavelength	nm	1310,1550,1570, 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, SM-GDF-1550
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: HPPBTC①-②-③-④-⑤-⑥-⑦-⑧-⑨-⑩

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	13:1310nm	10:10W	50:50/50	S28:SMF-28e	25:250μm	05:0.5m	00: None
Grade	202:2x2	55:1550m	20:20W	40:40/60	XXX: fiber code	90:900μm	10:1.0m	FP: FC/PC
		57:1570nm	30:30W	30:30/70		XX: Others	15:1.5m	FA: FC/APC
		XX: Others	50:50W	20:20/80			XX: Others	XX: Others
				10:10/90				
				05:5/95				
				02:2/98				
				01:1/99				
				XX: Others				

**Part Number Example:** HPPBTC-P-102-55-30-01-S28-25-10-00

**Description:** 1550nm high power single mode fused coupler, P grade, 1x2, 30w handling power, 1:99, SMF-28e 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.