1080nm Large Beam Fiber Collimator

Key Features

- Low Insertion Loss
- High Power Handling
- Low Cost
- PM and Non-PM are available
- Fiber can be customized
- Beam Diameter can be customized
- High Reliability
- Excellent Temperature Stability

High Power Large Beam Fiber Collimator can be used for high power fiber laser and fiber amplifier. These devices can be used to reduce the power density at output fiber facet.

Applications

- Fiber lasers
- Fiber Amplifiers
- Test and Measurement
- Instrumentation

For more Info

Please contact us at:

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https://www.dkphotonics.com

Add.:

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Dahe Road, Longhua Dis.,

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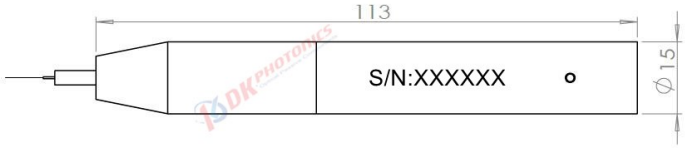
Package Dimension



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

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Performance Specifications

Parameters	Unit	Values
Central Wavelength	nm	1080
Operating Wavelength Range	nm	±20
Beam Diameter	mm	3±1, 5±1,
Working Distance	mm	1000 or specify
Typ. Insertion Loss (at 1000mm)	dB	0.40
Max. Insertion Loss (at 1000mm)	dB	0.60
Max. PDL (for SM fiber)	dB	0.20
Min. Extinction Ratio (for PM fiber)	dB	20
Max. Far Filed Divergence(1030nm)	dB	0.7
Min. Return Loss	dB	50
Fiber Type	-	1060-XP,10/125; PM980-XP; PM10/125 DC, etc.
Max. Optical Power (CW)	W	5,10,20,30,50
Armored Length(A)	m	2, 3, 5
Fiber Length(B)	m	1.0
Tensile Load	N	5
Operation Temperature	℃	0 ~ +50
Storage Temperature	℃	-20 ~ +75

1. Above specification are for device without connector, and may change without notice.
2. Other package dimension and optical performance can meet customer design.
3. IL is 0.3 dB higher and RL is 5 dB lower, ER is 2dB lower (PM type) for each connector added. The pass optical power is 2 W only for connector added.

Order information

P/N: LBFC (PMLBFC)-①-②-③-④-⑤-⑥

When you inquire, please provide the correct P/N number according to our ordering information, and attach the appropriate description would be better. For high power applications, we recommend direct splicing without connectors.

①	②	③	④	⑤	⑥
Wavelength	Optical Power	Beam Diameter	Fiber Type	Fiber Jacket on Input & Length(A)	Fiber Length(B)
30:1030nm	05:5W	03:3.0±1.0mm	XXX: fiber code	A20:3mm Armored Cable&2.0m Length	10:1.0m
64:1064nm	10:10W	05:5.0±1.0mm		A50:3mm Armored Cable&5.0m Length	20:2.0m
80:1080nm	20:20W	XX: Other		B20: 3mm PVC Cable&2.0m Length	XX: Other
XX: Other	30:30W			C20: 0.9mm PVC tube&2.0m Length	
	XX: Other			XX: Other	

Part Number Example: LBFC-80-05-05-06X-A20-10

Description: 1080nm Large Beam Fiber Collimator, 5W power, 5.0±1.0mm beam diameter, with 1060-XP fiber, with 3mm armored cable & 2.0m Length, and 1.0m length bare fiber after the armored cable.

Ordering Information for Custom Parts

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