



Fiber Beam Homogenizer

I&Optics' fiber beam homogenizer can homogenise a divergent round gaussian beam into a flat-topped multi-gaussian beam. It features high transmission ratio and flat top beam profile. It can be used in lasers, industry, 3D imaging, laser lighting, testing systems and R&D.

Specification

Parameter	Test Condition	Unit	Value
Nominal Center Wavelength	-	nm	633, 850 , 980 , 1060 , 1310 , 1550 , 2000 or Specify
Wavelength Range	-	nm	+/-20 for 633/850/ 980/1060nm, others +/-50
Min. Transmission Ratio	at Center Wavelength	%	88, Typ. 91 for 2000nm, others 90, Typ. 93
Min. Order Number	Energy Peak	-	10 or Specify
Nominal Beam Waist	90% Width down from Peak	mm	5, 7, 8, 10 or Specify
Max. Beam Pointing Accuracy	with Respect to Body	mrad	5
Min. Return Loss	at Center Wavelength	dB	50
Max. Power Handling Rate	Continuous Wave	W	0.3, 1, 3, 5, 10 or Specify
Fiber Type	-	-	Single Mode Fiber or LMA Fiber or Specify
Max. Fiber Tensile Load	-	N	5
Operating Temperature	-	°C	-5 to 70
Storage Temperature	-	°C	-40 to 85

Above values are for device without connectors. For device with connector, IL will be 0.3dB higher (0.5dB for 633/850nm), return loss will 5dB lower and handling power is only 1W (0.5W for 633/850nm).

Package Dimensions

Detailed Informations And Dimensions Please Contact Us. Customized Design Is Available Upon Request.

Ordering Informations

FBH-①-②-③-④-⑤-⑥-⑦-⑧

① - Center Wavelength

63 - 633nm

85 - 850nm

98 - 980nm

06 - 1060nm

31 - 1310nm

55 - 1550nm

20 - 2000nm

SS - Specify

② - Beam Order Number

10 - 10

③ - Beam Waist Diameter

05 - 5.0mm

07 - 7.0mm

08 - 8.0mm

10 - 10.0mm

④ - Power Rate

0T - 0.3W

01 - 1W

10 - 10W

⑤ - Fiber Type

1 - SM 650 Fiber

2 - PM 630 Panda Fiber

3 - Hi 780 Fiber

4 - PM 850 Panda Fiber

5 - Hi 1060 Fiber

6 - PM 980 Panda Fiber

7 - SMF-28e Fiber

8 - PM 1310 Panda Fiber

9 - PM 1550 Panda Fiber

⑥ - Connector Type

1 - FC/UPC

2 - FC/APC

3 - SC/UPC

4 - SC/APC

⑦ - Fiber Jacket

B - Bare Fiber

L - 900um Loose Tube

3 - 3mm Amoured Cable

6 - 6mm Amoured Cable

⑧ - Fiber Length

0.8 - 0.8m