



## Fiber Beam Multiplication Splitter

I&Optics' fiber beam multiplication splitter can split an input beam into several beams. By focusing the split beams the user can get a line or an array of focused spots on focal plane of the lens. It features low excess loss and high location uniformity. It can be used in lasers, industry, 3D imaging, LiDARs, laser lighting, testing systems and R&D.

### Specification

Parameter	Test Condition	Unit	Value
Nominal Center Wavelength	-	nm	633, 850 , 980 , 1060 , 1310 , 1550 or Specify
Wavelength Range	-	nm	+/-20 for 633/850/ 980/1060nm, others +/-40
Max. Excess Loss	at Center Wavelength	dB	0.4, Typ. 0.25
Array Profile	Energy Peak, Row x Column	-	1x2, 1x3, 2x2, 4x4, 9x9 or Specify
Nominal Deviation Angle	between Two Adjacent Beams	deg	0.5 or Specify
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

FBMS-①-②-③-④-⑤-⑥-⑦-⑧

① - Center Wavelength

63 - 633nm

85 - 850nm

98 - 980nm

06 - 1060nm

31 - 1310nm

55 - 1550nm

SS - Specify

② - Array Profile

12 - 1x2

13 - 1x3

22 - 2x2

44 - 4x4

99 - 9x9

③ - Single Beam 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