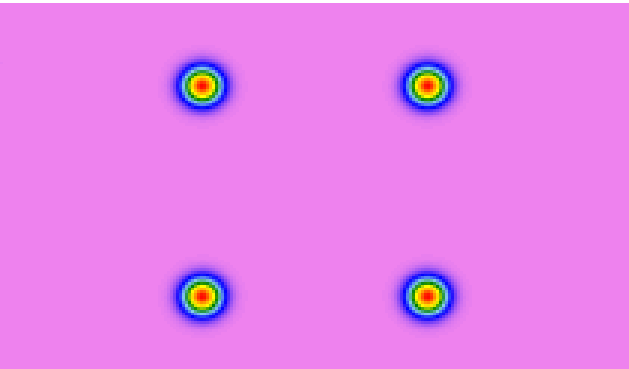


## DBS-2x2 2x2 Diffractive Beam Splitter



### PRODUCT FEATURES

- ▲ Separation of the input beam into four beams
- ▲ Thin single optical element

### APPLICATIONS

- ▲ Parallel laser material processing
- ▲ Parallel laser scanning
- ▲ Laser perforation
- ▲ Optical measurement

### RELATED PRODUCT

- ▲ Rotation mount HSF03 for rotation /alignment of the spot array



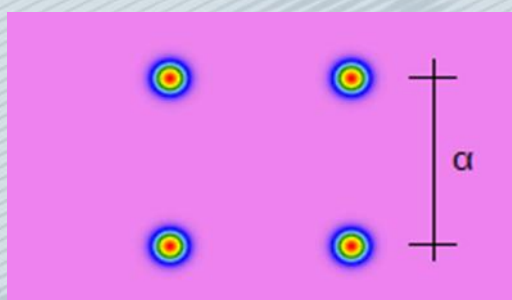
2x2 beam splitters diffract the input beam into 4 beams. Each beam has > 16.5 % of total input power. The uniformity error  $(I_{max} - I_{min}) / (I_{max} + I_{min})$  is < 2 %. Besides, the power in the highest unwanted diffraction order is < 2.2 % (of input power).

### SPECIFICATIONS

Efficiency	> 66 %
Uniformity error	< 2 %
Light in 0th order beam	< 1 %
Strongest unwanted beam	< 2.2 %
Dimensions <sup>1)</sup>	dia. 25.4 mm / thickness 3 mm
Active area <sup>1)</sup>	dia. 23 mm
Material <sup>1)</sup>	fused silica
Damage threshold	10 J/cm <sup>2</sup> @ 1064 nm, 10 ns 5 J/cm <sup>2</sup> @ 532 nm, 10 ns 3 J/cm <sup>2</sup> @ 355 nm, 10 ns

Incl. AR/AR coating

<sup>1)</sup> Others on request



### AVAILABLE SEPARATION ANGLE $\alpha$

1064 nm	1030 nm	532 nm	515 nm	355 nm	343 nm
4.243 °	4.108 °	2.121 °	2.054 °	1.416 °	1.368 °
2.903 °	2.811 °	1.452 °	1.405 °	0.969 °	0.936 °
2.831 °	2.740 °	1.415 °	1.370 °	0.944 °	0.912 °

Model No.: DBS-2x2-wavelength-separation angle

Other angles or wavelengths on request.