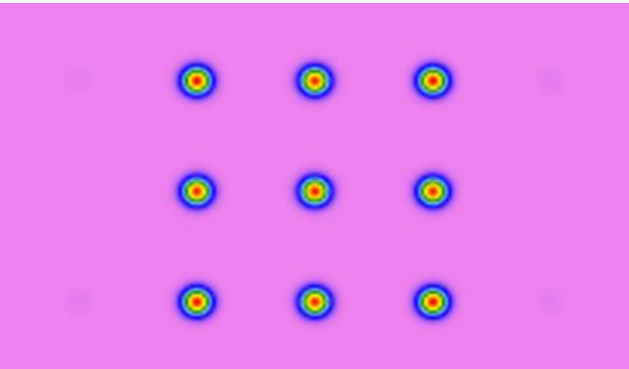


DBS-3x3 3x3 Diffractive Beam Splitter



PRODUCT FEATURES

- ▲ Separation of the input beam into nine 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



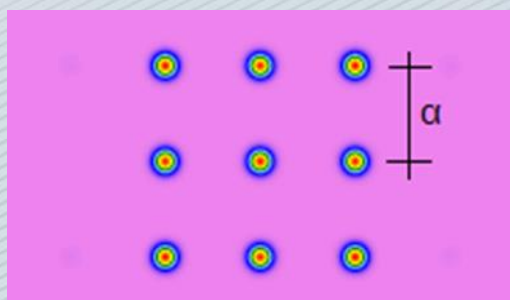
3x3 beam splitters diffract the input beam into 9 beams. Each beam has > 8 % of total input power. The uniformity error $(I_{max} - I_{min}) / (I_{max} + I_{min})$ is < 5 %. Besides, the power in the highest unwanted diffraction order is < 1.2 % (of input power).

SPECIFICATIONS

| | |
|---------------------------|---|
| Efficiency | > 73 % |
| Uniformity error | < 5 % |
| Strongest unwanted beam | < 1.2 % |
| Dimensions ¹⁾ | dia. 25.4 mm / thickness 3 mm |
| Active area ¹⁾ | dia. 23 mm |
| Material ¹⁾ | fused silica |
| Damage threshold | 10 J/cm ² @ 1064 nm, 10 ns 5 J/cm ² @ 532 nm, 10 ns 3 J/cm ² @ 355 nm, 10 ns |

Incl. AR/AR coating

¹⁾ Others on request



AVAILABLE SEPARATION ANGLE α

| 1064 nm | 1030 nm | 532 nm | 515 nm | 355 nm | 343 nm |
|---------|---------|---------|---------|---------|---------|
| 2.903 ° | 2.811 ° | 1.452 ° | 1.405 ° | 0.969 ° | 0.936 ° |
| 1.501 ° | 1.453 ° | 0.750 ° | 0.726 ° | 0.501 ° | 0.484 ° |
| 1.204 ° | 1.166 ° | 0.602 ° | 0.583 ° | 0.402 ° | 0.388 ° |
| 1.000 ° | 0.968 ° | 0.500 ° | 0.484 ° | 0.334 ° | 0.322 ° |
| 0.500 ° | 0.484 ° | 0.250 ° | 0.242 ° | 0.167 ° | 0.161 ° |
| 0.296 ° | 0.286 ° | 0.148 ° | 0.143 ° | 0.099 ° | 0.095 ° |

Model No.: DBS-3x3-wavelength-separation angle

Other angles or wavelengths on request.