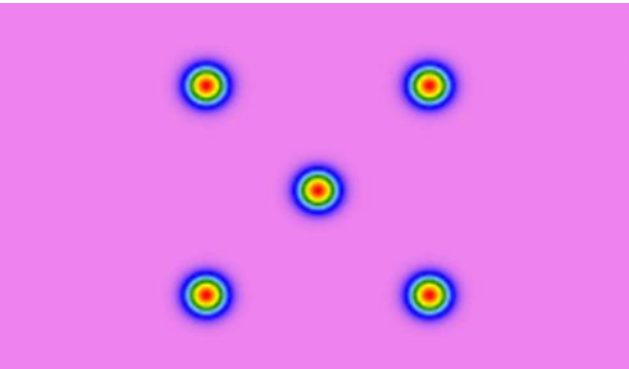


DBS-5/4 5/4 Diffractive Beam Splitter



PRODUCT FEATURES

- ▲ Separation of the input beam into five 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



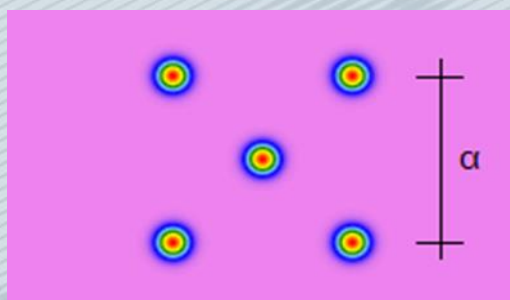
5/4 beam splitters diffract the input beam into 5 beams. Positions of 4 beams are in the edges of a square. The 5th beam is centered to the 4 other beams. Each beam has > 14.4 % of total input power. The uniformity error $(I_{max} - I_{min}) / (I_{max} + I_{min})$ is < 5 %. Besides, the power in the highest unwanted diffraction order is < 2.2 % (of input power).

SPECIFICATIONS

Efficiency	> 72 %
Uniformity error	< 5 %
Strongest unwanted beam	< 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
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-5/4-wavelength-separation angle

Other angles or wavelengths on request.