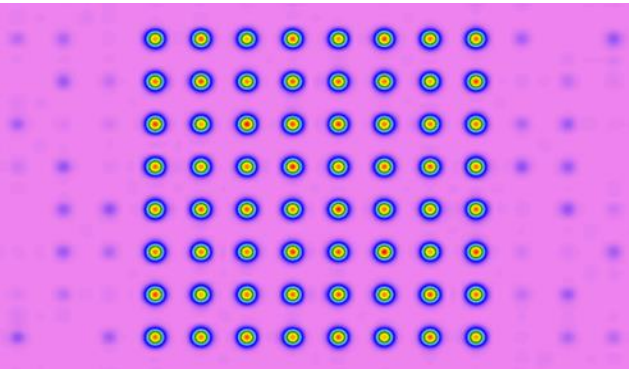


DBS-8x8 8x8 Diffractive Beam Splitter



PRODUCT FEATURES

- ▲ Separation of the input beam into sixty-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



8x8 beam splitters diffract the input beam into 64 beams. Each beam has > 1 % of total input power. The uniformity error $(I_{max} - I_{min}) / (I_{max} + I_{min})$ is < 10 %. Besides, the power in the highest unwanted diffraction order is < 0.1 % (of input power).

SPECIFICATIONS

| | |
|---------------------------|---------------------------------------------------------------------------------------------------------------------|
| Efficiency | > 75 % |
| Uniformity error | < 10 % |
| Light in 0th order beam | < 1 % |
| Strongest unwanted beam | < 0.1 % |
| 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 |
| 1.092 ° | 1.057 ° | 0.546 ° | 0.528 ° | 0.364 ° | 0.352 ° |

Model No.: DBS-8x8-wavelength-separation angle

Other angles or wavelengths on request.

