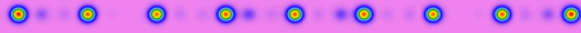


DBS-1x9 1x9 Diffractive Beam Splitter



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



1x9 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 % (of input power).

SPECIFICATIONS

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

¹⁾ Others on request

AVAILABLE SEPARATION ANGLE α

1064 nm	1030 nm	532 nm	515 nm	355 nm	343 nm
1.200 °	1.162 °	0.600 °	0.581 °	0.400 °	0.387 °
0.600 °	0.581 °	0.300 °	0.290 °	0.200 °	0.193 °

Model No.: DBS-1x9-wavelength-separation angle

Other angles or wavelengths on request.

