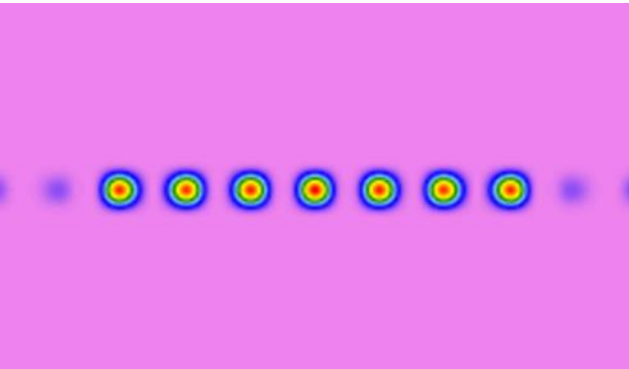


DBS-1x7 1x7 Diffractive Beam Splitter



PRODUCT FEATURES

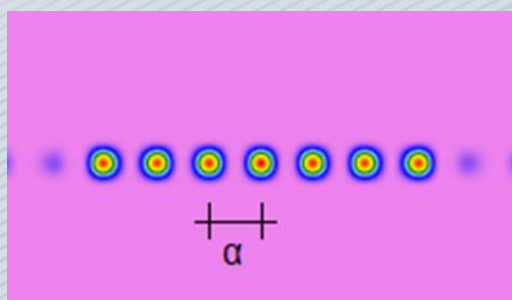
- ▲ Separation of the input beam into seven beams
- ▲ Thin single optical element

APPLICATIONS

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

RELATED PRODUCT

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



1x7 beam splitters diffract the input beam into 7 beams. Each beam has > 10.5 % 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 < 1.1 % (of input power).

SPECIFICATIONS

Efficiency	> 74 %
Uniformity error	< 5 %
Strongest unwanted beam	< 1.1 %
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
0.035 °	0.034 °	0.017 °	0.017 °	0.012 °	0.011 °

Model No.: DBS-1x7-wavelength-separation angle

Other angles or wavelengths on request.