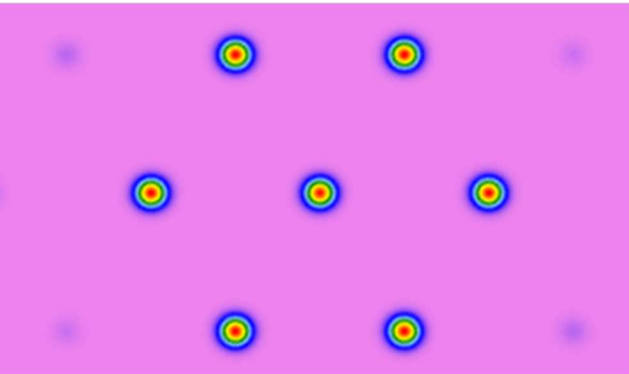


DBS-7/6 7/6 Diffractive Beam Splitter



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

7/6 beam splitter diffracts the input beam into 7 beams. Positions of 6 beams are in the edges of a hexagon. The 7th beam is centered to the 6 other beams. The power in each beam in ratio to the input power is > 10.5% and the uniformity error $(I_{max} - I_{min}) / (I_{max} + I_{min})$ is < 5%. The power in the highest unwanted diffraction order is < 1% (of input power).

SPECIFICATIONS

Efficiency	> 75%
Uniformity error	< 5%
Strongest unwanted beam	< 1%
Dimensions	dia. 25.4mm/thickn. 3mm
Active area	dia. 23mm
Damage threshold	5J/cm ² @ 10ns, 1064nm 4J/cm ² @ 10ns, 532nm 2J/cm ² @ 10ns, 355nm

Incl. AR/AR coating

SEPARATION ANGLE

1064nm	1030nm	532nm	515nm	355nm	343nm
0.573°	0.555°	0.286°	0.277°	0.191°	0.185°
0.229°	0.222°	0.115°	0.111°	0.077°	0.074°
0.115°	0.111°	0.057°	0.056°	0.038°	0.037°
0.057°	0.056°	0.029°	0.028°	0.0191°	0.0185°
0.029°	0.028°	0.014°	0.014°	0.0096°	0.0092°

Model No.: DBS-7/6-Wavelength-Separation angle

Other angles or wavelength on request

