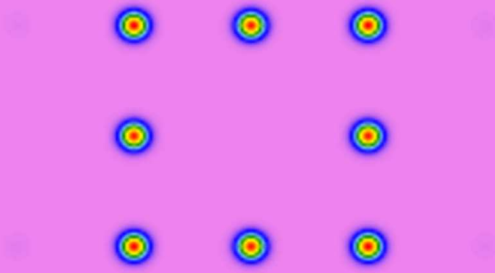


DBS-8/4 8/4 Diffractive Beam Splitter



PRODUCT FEATURES

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

APPLICATIONS

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

8/4 beam splitter diffracts the input beam into 8 beams. Positions of 4 beams are in the edges of a square. The other 4 beams are placed in the middle of the edges of the square. The power in each beam in ratio to the input power is $> 8.75\%$ and the uniformity error is $< 2.5\%$ ($(I_{max} - I_{min}) / (I_{max} + I_{min})$). The power in the highest unwanted diffraction order is $< 1.3\%$ (of input power).

SPECIFICATIONS

Efficiency	$> 70\%$
Uniformity error	$< 2.5\%$
Light in 0th order beam	$< 1\%$
Strongest unwanted beam	$< 1.3\%$
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
2.903°	2.811°	1.452°	1.405°	0.969°	0.936°
0.296°	0.286°	0.148°	0.143°	0.0987°	0.0954°

Model No.: DBS-8/4-Wavelength-Separation angle

Other angles or wavelength on request

