

## DBS-1x6 1x6 Diffractive Beam Splitter

### PRODUCT FEATURES

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

### APPLICATIONS

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

1x6 beam splitter diffracts the input beam into 6 beams. The power in each beam in ratio to the input power is  $> 13\%$  and the uniformity error  $(I_{max} - I_{min}) / (I_{max} + I_{min})$  is  $< 2\%$ . The power in the highest unwanted diffraction order is  $< 2\%$  (of input power).

### SPECIFICATIONS

Efficiency	$> 80\%$
Uniformity error	$< 2\%$
Light in 0th order beam	$< 1\%$
Strongest unwanted beam	$< 1\%$
Dimensions	dia. 25.4mm/thickn. 3mm
Active area	dia. 23mm
Damage threshold	5J/cm <sup>2</sup> @ 10ns, 1064nm 4J/cm <sup>2</sup> @ 10ns, 532nm 2J/cm <sup>2</sup> @ 10ns, 355nm

Incl. AR/AR coating

### SEPARATION ANGLE

1064nm	1030nm	532nm	515nm	355nm	343nm
1.008°	0.975°	0.504°	0.488°	0.336°	0.325°
0.504°	0.488°	0.252°	0.244°	0.168°	0.162°
0.252°	0.244°	0.126°	0.122°	0.084°	0.081°
0.101°	0.098°	0.050°	0.049°	0.034°	0.032°

Model No.: DBS-1x6-Wavelength-Separation angle

Other angles or wavelength on request

