

## DBS-1x8 1x8 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

1x8 beam splitter diffracts the input beam into 8 beams. The power in each beam in ratio to the input power is  $> 8.7\%$  and the uniformity error  $(I_{max} - I_{min}) / (I_{max} + I_{min})$  is  $< 2.5\%$ . The power in the highest unwanted diffraction order is  $< 1\%$  (of input power).

### SPECIFICATIONS

Efficiency	$> 70\%$
Uniformity error	$< 2.5\%$
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
0.646°	0.625°	0.323°	0.313°	0.216°	0.208°
0.464°	0.449°	0.232°	0.225°	0.155°	0.150°
0.449°	0.434°	0.224°	0.217°	0.150°	0.145°

**Model No.: DBS-1x8-Wavelength-Separation angle**

Other angles or wavelength on request

