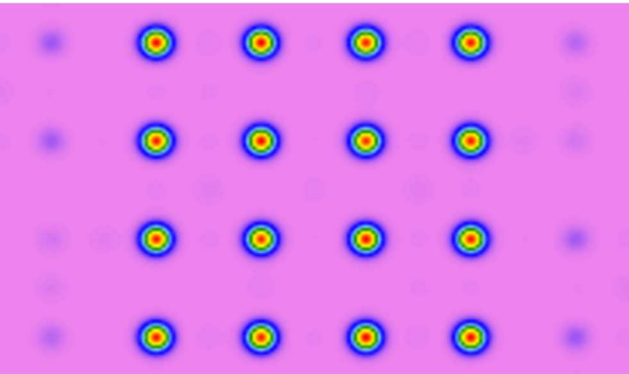


## DBS-4x4 4x4 Diffractive Beam Splitter



### PRODUCT FEATURES

- ▲ Separation of the input beam into 16 beams
- ▲ Thin single optical element

### APPLICATIONS

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

4x4 beam splitter diffracts the input beam into 16 beams. The power in each beam in ratio to the input power is  $> 4.6\%$  and the uniformity error  $(I_{max} - I_{min}) / (I_{max} + I_{min})$  is  $< 2.5\%$ . The power in the highest unwanted diffraction order is  $< 0.3\%$  (of input power).

### SPECIFICATIONS

Efficiency	$> 74\%$
Uniformity error	$< 2.5\%$
Light in 0th order beam	$< 1\%$
Strongest unwanted beam	$< 0.3\%$
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
2.903°	2.811°	1.452°	1.405°	0.969°	0.936°

**Model No.: DBS-4x4-Wavelength-Separation angle**

Other angles or wavelength on request

