



DBS-8x8 8x8 Diffractive Beam Splitter

PRODUCT FEATURES

- ▲ Separation of the input beam into 64 beams
- ▲ Thin single optical element

APPLICATIONS

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

8x8 beam splitter diffracts the input beam into 64 beams. The power in each beam in ratio to the input power is $> 1\%$ and the uniformity error $(I_{max} - I_{min}) / (I_{max} + I_{min})$ is $< 10\%$. The power in the highest unwanted diffraction order is $< 0.1\%$ (of input power).

SPECIFICATIONS

| | |
|-------------------------|---|
| Efficiency | $> 75\%$ |
| Uniformity error | $< 10\%$ |
| Light in 0th order beam | $< 1\%$ |
| Strongest unwanted beam | $< 0.1\%$ |
| 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 |
| 1.092° | 1.057° | 0.546° | 0.528° | 0.364° | 0.352° |

Model No.: DBS-8x8-Wavelength-Separation angle

Other angles or wavelength on request

