



DBS-2x2 2x2 Diffractive Beam Splitter

PRODUCT FEATURES

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

APPLICATIONS

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

2x2 beam splitter diffracts the input beam into 4 beams. The power in each beam in ratio to the input power is $> 16.5\%$. The uniformity error $(I_{max} - I_{min}) / (I_{max} + I_{min})$ is $< 2\%$. The power in the highest unwanted diffraction order is $< 2.2\%$ (of input power).

SPECIFICATIONS

Efficiency	$> 66\%$
Uniformity error	$< 2\%$
Light in 0th order beam	$< 1\%$
Strongest unwanted beam	$< 2.2\%$
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
4.243°	4.108°	2.121°	2.054°	1.416°	1.368°
2.903°	2.811°	1.452°	1.405°	0.969°	0.936°
2.831°	2.740°	1.415°	1.370°	0.944°	0.912°

Model No.: DBS-2x2-Wavelength-Separation angle

Other angles or wavelength on request

