



DBS-3x3 3x3 Diffractive Beam Splitter

PRODUCT FEATURES

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

APPLICATIONS

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

3x3 beam splitter diffracts the input beam into 9 beams. The power in each beam in ratio to the input power is $> 8\%$ and the uniformity error $(I_{max} - I_{min}) / (I_{max} + I_{min})$ is $< 5\%$. The power in the highest unwanted diffraction order is $< 1.2\%$ (of input power).

SPECIFICATIONS

Efficiency	$> 73\%$
Uniformity error	$< 5\%$
Strongest unwanted beam	$< 1.2\%$
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
2.903°	2.811°	1.452°	1.405°	0.969°	0.936°
0.296°	0.286°	0.148°	0.143°	0.099°	0.095°

Model No.: DBS-3x3-Wavelength-Separation angle

Other angles or wavelength on request

