



DBS-5/4 5/4 Diffractive Beam Splitter

PRODUCT FEATURES

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

APPLICATIONS

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

5/4 beam splitter diffracts the input beam into 5 beams. Positions of 4 beams are in the edges of a square. The 5th beam is centered to the 4 other beams. The power in each beam in ratio to the input power is > 14.2% and the uniformity error $(I_{max} - I_{min}) / (I_{max} + I_{min})$ is < 5%. The power in the highest unwanted diffraction order is < 2% (of input power).

SPECIFICATIONS

Efficiency	> 72%
Uniformity error	< 5%
Strongest unwanted beam	< 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-5/4-Wavelength-Separation angle

Other angles or wavelength on request

