

DBS-1x2 1x2 Diffractive Beam Splitter



PRODUCT FEATURES

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

APPLICATIONS

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

1x2 beam splitter diffracts the input beam into 2 beams. The power in each beam in ratio to the input power is $> 40\%$ and the uniformity error $(I_{max} - I_{min}) / (I_{max} + I_{min})$ is $< 2\%$. The power in the highest unwanted diffraction order is $< 5\%$ (of input power).

SPECIFICATIONS

Efficiency	$> 80\%$
Uniformity error	$< 2\%$
Light in 0th order beam	$< 1\%$
Strongest unwanted beam	$< 5\%$
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
4.585°	4.438°	2.292°	2.219°	1.529°	1.478°
0.458°	0.444°	0.229°	0.222°	0.153°	0.148°
0.229°	0.222°	0.115°	0.111°	0.077°	0.074°
0.115°	0.111°	0.057°	0.056°	0.038°	0.037°
0.046°	0.044°	0.023°	0.022°	0.015°	0.015°

Model No.: DBS-1x2-Wavelength-Separation angle

Other angles or wavelength on request

