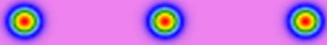


DBS-1x3 1x3 Diffractive Beam Splitter



PRODUCT FEATURES

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

APPLICATIONS

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

1x3 beam splitter diffracts the input beam into 3 beams. The power in each beam in ratio to the input power is $> 28\%$ and the uniformity error $(I_{max} - I_{min}) / (I_{max} + I_{min})$ is $< 5\%$. The power in the highest unwanted diffraction order is $< 3.5\%$ (of input power).

SPECIFICATIONS

Efficiency	$> 84\%$
Uniformity error	$< 5\%$
Strongest unwanted beam	$< 3.5\%$
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
2.292°	2.219°	1.146°	1.109°	0.765°	0.739°
0.229°	0.222°	0.115°	0.111°	0.077°	0.074°
0.115°	0.111°	0.057°	0.056°	0.038°	0.037°
0.057°	0.056°	0.029°	0.028°	0.019°	0.019°
0.023°	0.022°	0.016°	0.011°	0.0076°	0.0074°

Model No.: DBS-1x3-Wavelength-Separation angle

Other angles or wavelength on request

