See all 13 Products in Family

1064nm, 18mm Dia., 9x9 Spot Matrix, Diffractive Beamsplitter

HOLO/OR Diffractive Beamsplitters

Stock **#14-692** **5 In Stock**

- 1 +

€1.970.00

ADD TO CART

Volume Pricing	
Qty 1+	**€1.970,00** each
Need More?	Request Quote

Prices shown are exclusive of VAT/local taxes

Product Downloads

General

Uniformity (%):

<13

Physical & Mechanical Properties

Clear Aperture CA (mm):

16.2

Diameter (mm):

18.00 +0.05/-0.15

Thickness (mm):

3.00 ±0.1

Optical Properties

Coating:
Laser V-Coat (1064nm)

Design Wavelength DWL (nm):
1064

Substrate:
Fused Silica (Corning 7980)

Input Beam Mode:
SM or MM

Minimum Beam Diameter (mm):
0.37

Overall Efficiency (%):
73

Full Angle (°):
4.0 x 4.0

Output Number of Spots:
9 x 9

Separation Angle (°):
0.50 x 0.50

Zero Order, Relative to the Average (%):
0-100

Damage Threshold, Reference:
See Link for More Details

Regulatory Compliance

RoHS 2015:
Compliant

Certificate of Conformance:
View

Reach 233:
Compliant

Product Details

- Split Input Beam into Several Diffraction Orders
- 1 Dimension Array or 2 Dimension Matrix Outputs
- Designs for Nd:YAG and CO_2 Lasers
- Compatible with Single Mode or Multimode Lasers

HOLO/OR Diffractive Beamsplitters are diffractive optical elements (DOE) that split an input laser beam into several beams, known as diffraction orders. These diffraction orders can be arranged as one dimensional beam arrays or two dimensional beam matrices with individual beam spots being distributed by a defined separation angle. HOLO/OR Diffractive Beamsplitters are available with designs for Nd:YAG harmonics (355nm, 532nm, and 1064nm) as well as CO2 lasers. HOLO/OR Diffractive Beamsplitters are used in materials processing applications, including parallel material processing and laser scribing, to increase laser system throughput, as well as in aesthetical treatments such as fractional treatment.

Note: Diffractive optical elements are not intended for use outside of their design wavelength. Diffractive optical elements will have decreased performance if their surfaces become dirty from oil or other substances. It is recommended to always use gloves or finger cots when handling these optics.

Edmund Optics offers a range of diffractive optical elements from HOLO/OR for laser applications, including:

- Diffractive Diffusers: used to convert an input laser beam to a defined shape with homogenized distribution
- Diffractive Beamsplitters: used to split an input laser beam into a 1D array or 2D matrix output
- Diffractive Beam Shapers: used to transform a nearly-Gaussian laser beam into a defined shape with uniform flat top intensity distribution
- Diffractive Beam Samplers: used to transmit an input laser beam while producing two higher order beams that can be used to monitor high power lasers
- Diffractive Axicons: used to transform an input laser beam to a Bessel beam that can be focused to a ring
- Diffractive Vortex Phase Plates: used to convert a Gaussian profile beam to a donut-shaped energy ring

Compatible Mounts

;