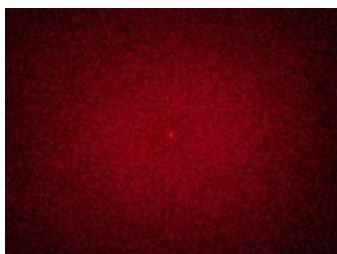




DOE-RD10K650-x

Diffraction Optical Element DOE 10000-Dot Random Pattern (80x64.4deg at 650nm)



Features

- Random dots pattern
- Number of dots: 10,000
- Substrate material: PET/PMMA
- DOE active area: 6x6 mm
- Design wavelength: 650nm
- Minimum recommended beam diameter (FWHM): 2mm

DOE Specifications

Parameters	Value
Field of View (FOV)	80°x64.4° (HxV)
Aspect Ratio	4:3
Contrast ¹ (calculated by gray level)	≥8
Uniformity ² (calculated by gray level)	≥20%
Zero Order	≤0.55%
Substrate Material	PET, PMMA

Notes:

1. Contrast: In the defined area, the ratio of the 95th percentile of the grayscale value over the median grayscale value of the background, $C=I_{95\%}/I_{\text{median}}$
2. Uniformity: The ratio of the grayscale value of the area at a given location to the grayscale value of the area in the center of the pattern, $U=I_{\text{each area}}/I_{\text{max of each area}}$

Ordering Information

Part Number	Description
DOE-RD10K650-PET5	Diffraction Optical Element DOE 10000-Dot Random Pattern (80°x64.4° at 650nm) – PET - Dia. 5mm x T. 0.188mm
DOE-RD10K650-PMMA5	Diffraction Optical Element DOE 10000-Dot Random Pattern (80°x64.4° at 650nm) – PMMA - Dia. 5mm x T. 1mm

Note: Specifications are subject to change without notice.

Lasermate Group, Inc. – The Friend of Lasers

Tel: (909) 718-0999 | Fax: (909) 718-0998 | sales@lasermate.com | www.lasermate.com