

DOE-RD38K940-x Diffractive Optical Element DOE 38000-Dot Random Pattern (68x48.5 deg at 940nm)



Features

- Random dots pattern
- Number of dots: 38,000
- Substrate material: PET/PMMA
- DOE active area: 5x5 mm
- Design wavelength: 940nm
- Minimum recommended beam diameter (FWHM): 2mm

DOE Specifications

Parameters	Value
Field of View (FOV)	68°x48.5° (HxV)
Aspect Ratio	4:3
Contrast ¹ (calculated by gray level)	≧5
Uniformity ² (calculated by gray level)	≧30%
Zero Order	≦0.2%
Substrate Material	PET, PMMA

Notes:

 Contrast: In the defined area, the ratio of the 95th percentile of the grayscale value over the midian grayscale value of the background, C=I_{95%}/I_{midian}

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_{each area}/I_{max of each area}

Ordering Information

Part Number	Description
DOE-RD38K940-PET5	Diffractive Optical Element DOE 38000-Dot Random Pattern (68°x48.5° at 940nm) –
	PET - Dia. 5mm x T. 0.188mm
DOE-RD38K940-PMMA5	Diffractive Optical Element DOE 38000-Dot Random Pattern (68°x48.5° at 940nm) –
	PMMA - Dia. 5mm x T. 1mm

Note: Specifications are subject to change without notice.

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