

DOE-RD30K940A-x Diffractive Optical Element DOE 30000-Dot Random Pattern (70x55.4 deg at 940nm)



Features

Random dots patternNumber of dots: 30,000

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)	70°x55.4° (HxV)
Aspect Ratio	4:3
Contrast ¹ (calculated by gray level)	≧3
Uniformity ² (calculated by gray level)	≧30%
Zero Order	≦0.3%
Substrate Material	PET, PMMA

Notes:

- 1. Contrast: In the defined area, the ratio of the 95^{th} 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-RD30K940A-PET5	Diffractive Optical Element DOE 30000-Dot Random Pattern (70°x55.4° at 940nm) –
	PET - Dia. 5mm x T. 0.188mm
DOE-RD30K940A-PMMA5	Diffractive Optical Element DOE 30000-Dot Random Pattern (70°x55.4° at 940nm) –
	PMMA - Dia. 5mm x T. 1mm

Note: Specifications are subject to change without notice.