Data Sheet Rev.01



DOE-RD30K830A-x Diffractive Optical Element DOE 30000-Dot Random Pattern (70x55.4 deg at 830nm)



## Features

- Random dots pattern
- Number of dots: 30,000
- Substrate material: PET/PMMA
- DOE active area: 5x5 mm
- Design wavelength: 830nm
- Minimum recommended beam diameter (FWHM): 2mm

## **DOE Specifications**

Parameters	Value
Field of View (FOV)	70°x55.4° (HxV)
Aspect Ratio	4:3
Contrast <sup>1</sup> (calculated by gray level)	≧3
Uniformity <sup>2</sup> (calculated by gray level)	≧45%
Zero Order	≦0.2%
Substrate Material	PET, PMMA

Notes:

1. Contrast: In the defined area, the ratio of the 95<sup>th</sup> percentile of the grayscale value over the midian grayscale value of the background, C=I<sub>95%</sub>/I<sub>midian</sub>

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<sub>each area</sub>/I<sub>max of each area</sub>

## **Ordering Information**

Part Number	Description
DOE-RD30K830A-PET5	Diffractive Optical Element DOE 30000-Dot Random Pattern (70°x55.4° at 830nm) –
	PET - Dia. 5mm x T. 0.188mm
DOE-RD30K830A-PMMA5	Diffractive Optical Element DOE 30000-Dot Random Pattern (70°x55.4° at 830nm) –
	PMMA - Dia. 5mm x T. 1mm

Note: Specifications are subject to change without notice.

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