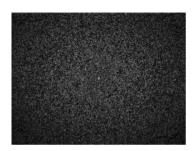


# DOE-RD30K850A-x Diffractive Optical Element DOE 30000-Dot Random Pattern (59x46 deg at 850nm)



### **Features**

Random dots patternNumber of dots: 30,000

Substrate material: PET/PMMA
DOE active area: 4x4 mm
Design wavelength: 850nm

• Minimum recommended beam diameter (FWHM): 2mm

## **DOE Specifications**

Parameters	Value
Field of View (FOV)	59°x46° (HxV)
Aspect Ratio	4:3
Contrast <sup>1</sup> (calculated by gray level)	≧6
Uniformity <sup>2</sup> (calculated by gray level)	≧40%
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,  $C=I_{95\%}/I_{midian}$
- 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<sub>each area</sub>/I<sub>max of each area</sub>

## **Ordering Information**

Part Number	Description
DOE-RD30K850A-PET5	Diffractive Optical Element DOE 30000-Dot Random Pattern (59°x46° at 850nm) –
	PET - Dia. 5mm x T. 0.188mm
DOE-RD30K850A-PMMA5	Diffractive Optical Element DOE 30000-Dot Random Pattern (59°x46° at 850nm) –
	PMMA - Dia. 5mm x T. 1mm

Note: Specifications are subject to change without notice.