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DOE-RD30K940B-x
Diffractive Optical Element DOE 30000-Dot Random Pattern (80x50.5deg at 940nm)

Features

- Random dots pattern
- Number 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)	80°x50.5° (HxV)
Aspect Ratio	16:9
Contrast[1] (calculated by gray level)	≧5
Uniformity[2] (calculated by gray level)	≧35%
Zero Order	≦0.2%
Substrate Material	PET, PMMA

Notes:

1. 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-RD30K940B-PET5	Diffractive Optical Element DOE 30000-Dot Random Pattern (80°x50.5° at 940nm) – PET - Dia. 5mm x T. 0.188mm
DOE-RD30K940B-PMMA5	Diffractive Optical Element DOE 30000-Dot Random Pattern (80°x50.5° at 940nm) – PMMA - Dia. 5mm x T. 1mm

Note: Specifications are subject to change without notice.