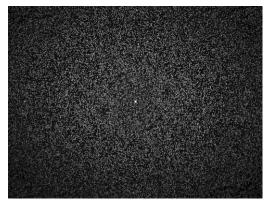


DTC-RD03 Diffractive Optical Element



• Element Number: DTC-RD03

• Description: Random dots pattern

• Number of dots: 30,000

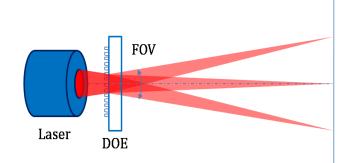
Substrate material: PET/PMMA/GLASS

DOE active area: 4 x 4 mmDesign wavelength: 850 nm

Minimum recommended beam diameter

(FWHM): 2 mm

Pattern Specifications



A DOE functions with a laser light source that emits a diffractive pattern. Each DOE pattern is characterized by a specific laser wavelength, focal length and transverse mode. Each laser wavelength will result in a different zero order intensity. The focal length is dependent on the DOE and the object distance which can be adjusted using a collimating lens (CL). The transverse mode will affect the dot shape.

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Field of View (FOV)	59° × 46°(HxV)
Aspect Ratio	4:3
Contrast ¹ (calculated by gray level)	≧6
Uniformity ² (calculated by gray level)	≧40%
Zero order	≦0.2%

 1 Contrast: in the defined area, the ratio of the 95th percentile of the grayscale value over the mode grayscale value of the background, C=I_{95\%}/I_{median}

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² **Uniformity**: the ratio of the grayscale value of the dots at a given location to the grayscale value of the dots in the center of the pattern, $U=I_{each\ area}/I_{max\ of\ each\ area}$