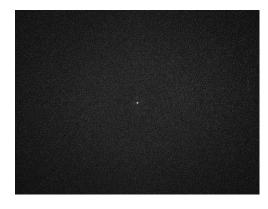


DTC-AA-61K Diffractive Optical Element



• Element Number: DTC-AA-61K

Description: Random dots pattern

• Number of dots: 61,000

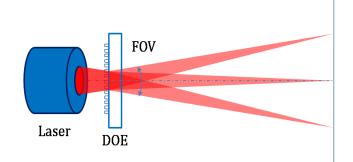
Substrate material: PET/PMMA/GLASS

DOE active area: 5 x 5 mmDesign wavelength: 940 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.

FF	
Field of View (FOV)	68° × 48.5°(HxV)
Aspect Ratio	4:3
Contrast ¹ (calculated by gray level)	≧2
Uniformity ² (calculated by gray level)	≧45%
Zero order	≦0.2%

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

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, $U=I_{each\ area}/I_{max\ of\ each\ area}$