

>> DE-R 262 - Standard Diffractive Optical Element

Element Number: DE-R 262

Description: Viewfinder (Dot Square)

Number of Dots: 37 Dots

Material: Polycarbonate (PC)

Size (\varnothing x Thickness): 8 x 1.2 mm

Optimum Wavelength: **543 nm**

(The element is usable with a range of wavelengths, but the following parameters will vary most with the wavelength: pattern size (see table 1) and intensity in the undiffracted central spot ('zero order', see table 2). At the optimum wavelength given on this datasheet, the element shows the lowest intensity in the central spot.)

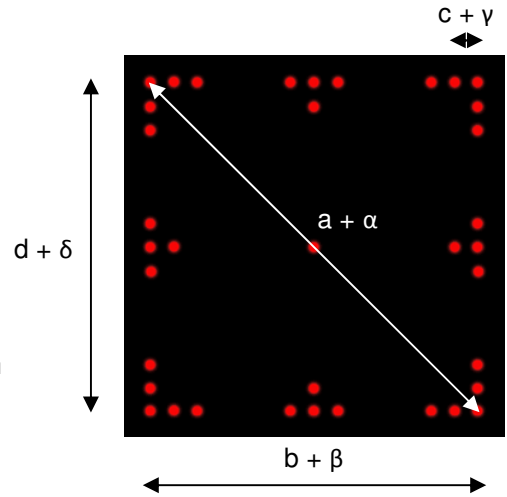
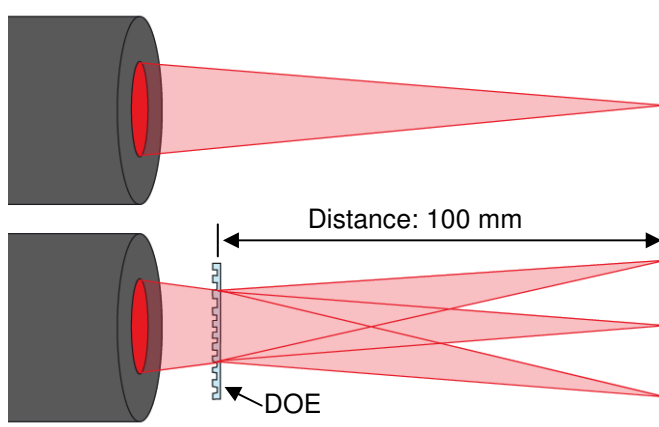


Table 1

Wavelength	Pattern Size @ 100 mm Distance				Pattern Angles			
	a	b	c	d	α	β	γ	δ
488 nm	16 mm	11.3 mm	0.48 mm	11.3 mm	9.1°	6.5°	0.28°	6.5°
543 nm	17.8 mm	12.6 mm	0.54 mm	12.6 mm	10.2°	7.2°	0.31°	7.2°
594 nm	19.5 mm	13.7 mm	0.59 mm	13.7 mm	11.1°	7.9°	0.34°	7.9°
635 nm	21 mm	14.7 mm	0.63 mm	14.7 mm	11.9°	8.4°	0.36°	8.4°
650 nm	21 mm	15.1 mm	0.65 mm	15.1 mm	12.2°	8.6°	0.37°	8.6°
730 nm	24 mm	16.9 mm	0.72 mm	16.9 mm	13.7°	9.7°	0.41°	9.7°
780 nm	26 mm	18.1 mm	0.77 mm	18.1 mm	14.6°	10.3°	0.44°	10.3°
808 nm	27 mm	18.7 mm	0.80 mm	18.7 mm	15.2°	10.7°	0.46°	10.7°

Setup:



Diffraction Zero Order Intensity:

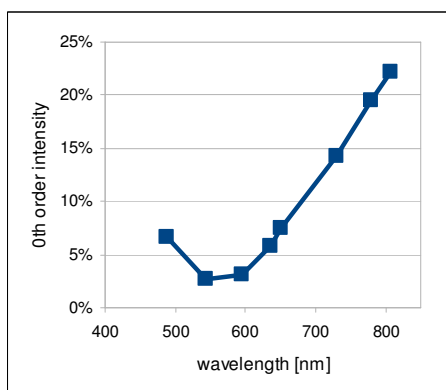


Table 2

Wavelength	0th Order Intensity
488	7%
543	2.7%
594	3.1%
635	6%
650	8%
730	15%
780	20%
808	23%