Application

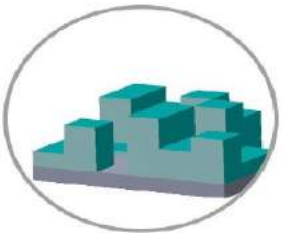
DVD optical pickups
3D mapping
Bio-Detection
Optical metrology
Charged couple devices (CCD)
LCD backlight systems
Virtual keyboard

Introduction

Diffractive Optical Elements (DOE) are optical microstructure elements that use interference properties of their micro etched surfaces to diffract a light source into a wide variety of patterns.
Compared to the conventional optical lenses, the DOEs have reduced dimensions and lighter weight but also show greater beam shape control and brightness stability.
In addition to a great choice of various patterns, Egismos can also design DOE for custom-made profiles.

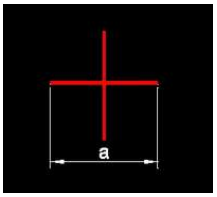
Feature

Wide pattern angle
High angle resolution
Various projection patterns
Compact size and lightweight



Diffractive Optical Element (Viewed with microscope)

Specifications(typical @tc=25℃)

Pattern: Cross	Product name	Material	Working Wavelength	Size	Angle a	0th order intensity
	O-DE-R-43-C-1-P	PMMA	650nm	φ 8 X 1.2 mm	5°	< 3%
	O-DE-R-43-C-2-P	PMMA	635nm	φ 8 X 1.2 mm	10°	< 3%
	O-DE-R-43-C-3-P	PMMA	635nm	φ 8 X 1.2 mm	15°	< 3%

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