

**Application**

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



**Introduction**

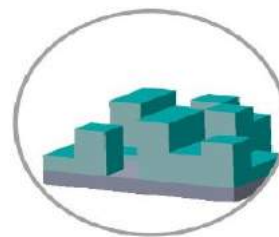
Diffraction Optical Elements (DOE) are optical microstructure elements that use interference properties of their micro etched surfaces to diffract a light source into a wide variety of patterns.

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.

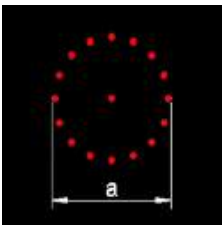
**Feature**

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



*Diffraction Optical Element  
(Viewed with microscope)*

**Specifications[typical @tc=25°C ]**

Pattern: 1 : 16 Dot Circle	Product name	Material	Working Wavelength	Size	Angle a	0 <sup>th</sup> order intensity
	O-DE-R-43-R-2-P	PMMA	635nm	φ 8 X 1.2 mm	10°	< 3%