

Diffractive Optical Elements (DOEs) made of Glass

Preliminary data sheet – Production ramp-up in progress

Applications

DOEs such as like Computer Generated Holograms (CGH), Blazed Gratings or Fresnel Zone Lenses for:

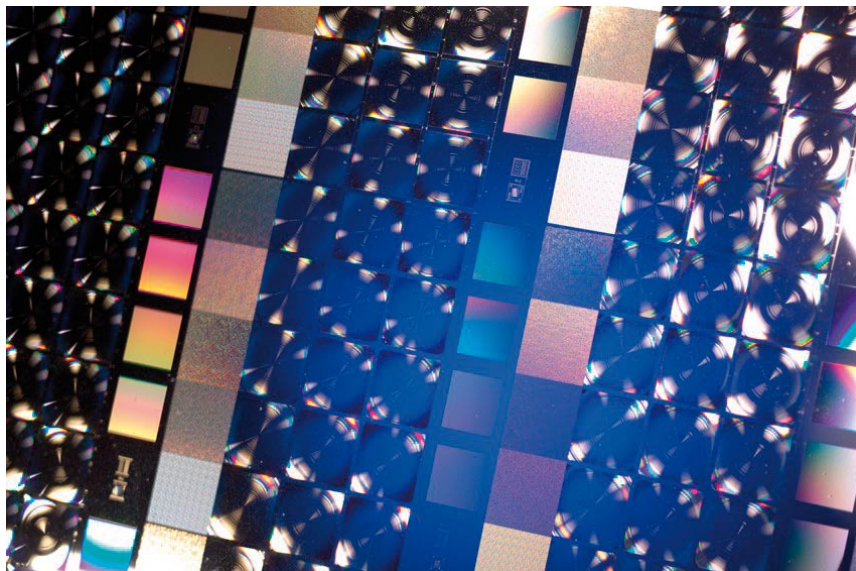
- Laser optics
- Optical sensors
- Lighting applications

Preliminary Specifications

	Phase levels	
	2	16
Period size	> 1 μm	> 8 μm
Efficiency	up to 40%	up to 95%
Depth	< 10 μm	< 10 μm
Aspect Ratio	< 1:1	< 1:1
Side slope	< 80°	< 80°

Advantages

- Significant better mechanical, thermal and chemical durability as polymer DOEs
- Variety of high homogeneous optical glasses (nd: 1.52 – 1.9) available
- Size and weight reduction of optics
- Several optical functions can be combined in a single element (component)
- Realisation of new optical functions is possible
- Excellent correction of chromatic aberrations
- Large scale production by unique precise pressing technology from SCHOTT



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