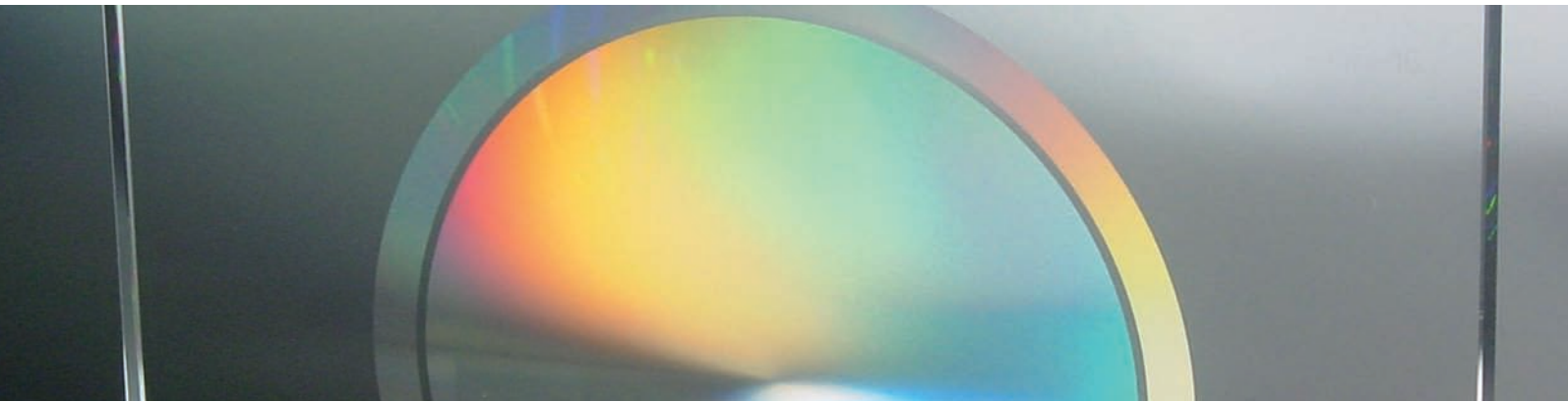




Diffraction Aspheric Lenses



Jenoptik diffractive aspheric lenses are flat optical elements that generate an aspheric wavefront. Such diffractive aspheric lenses serve as null lenses in precision interferometric tests for manufacturing high quality refractive aspheric lenses. They are also used as aspheric elements in optical systems with unique aberration compensation properties.

Features:

- Precise aspheric wavefront
- Highly efficient multilevel and gray scale structures
- Rotation symmetric, cylindrical, elliptic and freeform wavefronts
- Large clear apertures
- Wavelengths from deep UV to long-wave infrared
- Wide range of materials
- Precise alignment structures at the rim for easy alignment
- Off-axis designs

Applications:

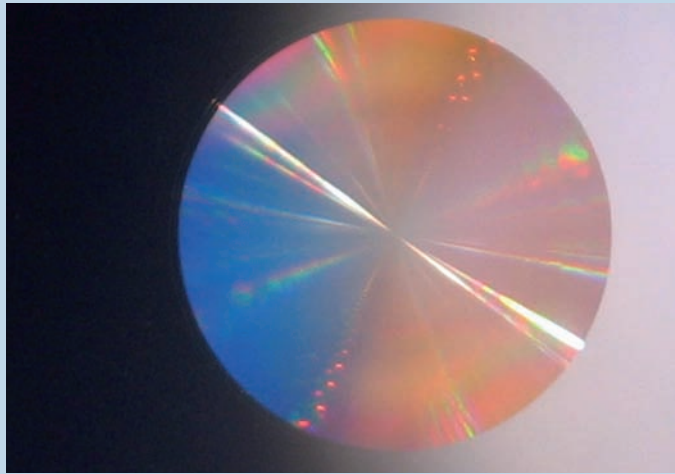
- Diffractive null lens for testing aspheres
- Testing of optical systems
- Compensation of chromatic aberrations of lens systems
- Flat image plane optics

Diffraction Aspheric Lenses

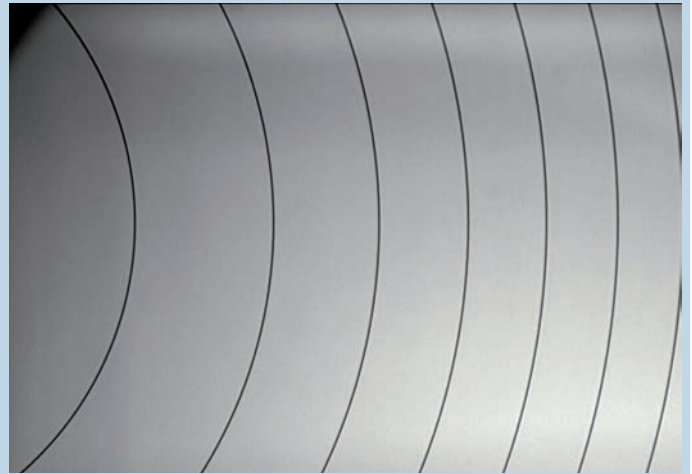
Specifications

| | |
|-------------------------|--|
| Materials: | Fused Silica, ZnSe, ZnS, Si, Ge, GaP, GaAs, Sapphire |
| Wavelengths: | 193 nm to 14 μ m |
| Max. efficiency: | 90 % with multilevel and gray scale structures |
| Max. N.A. (@ 632.8 nm): | 0.1 (multilevel) / 0.4 (binary) |
| Clear aperture: | < 120 mm |
| Dimensions: | 5 x 5 mm ² to 150 x 150 mm ² |
| Thickness: | 0.3 mm to 6.35 mm |
| Coatings: | Broadband or laser line AR |
| Product number: | 029140 |

Diffraction lens



Structure of a diffraction lens



It is our policy to constantly improve the design and specifications. Accordingly, the details represented herein cannot be regarded as final and binding.



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