Lenses



Material Glass, optical crystals

Diameter from 5 to 200 mm

PV / rms λ / λ / 8

Purity 40-20

Thickness ±0,05 mm

Diameter -0,003 mm

Aspherical lenses



Material Glass, optical crystals



Diameter from 20 to 200 mm

PV / rms λ / λ / 8

Purity 60-40

Thickness ±0,05 mm

Diameter -0,003 mm

Prisms



Material Glass, optical crystals

Radius of

circumscribed circle from 5 to 300 mm

Angles precision 2"

Pyramid shape 5"

PV 0,05 λ

Purity 40-20



Fairings

Material Glass, optical crystals

Polythickness 0,05 mm

Purity 60-40



Metal optics

Radius of

circumscribed circle from 8 to 125 mm

Precision of

geometrical sizes 0,05 mm

PV 0,05 λ

Purity 40-20

Windows, mirrors

Radius of

circumscribed circle from 5 to 300 mm

Accuracy of

geometrical sizes 0,05 mm

Wedge 5"

PV 0,05 λ

Purity 40-20

Photomasks

Maximum size of

operation field 285 mm

Substrate thickness 1-8 mm

Minimum size

of element 1,0 μm

Error ±0,2 μm

Angular error

of topology elements ± 1,0 seconds of arc

Recording material Chromium

Substrate material Glass, quartz

Purity 10-5

Code dials, grids, reticles



Maximum diameter 150 mm

Substrate thickness 1-8 mm

Minimum thickness

of mark 1,5±0,05 μm

Error ±1,5 seconds of arc

Masking coating Chromium

Purity 10-5

Material Glass, quartz

Assembly

|  |  |
| --- | --- |
| Objective lenses | |
| Focus | 9,4 mm (for wavelength 0,82 μm) |
| Relative aperture | 1:4,3 |
| Spectral range | 0,5-1,0 μm |
| Field of view | 50 degrees |
| Component objectives | |
| Focal length | 217,01 mm, -52,37 mm, -139,03 mm, |
| Spectral range | 130,29 mm |
|  | 0,6-0,84 mm |
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