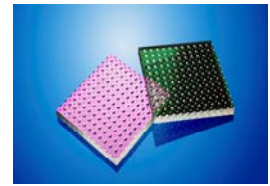
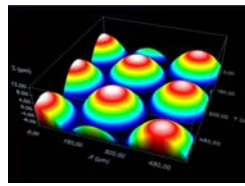
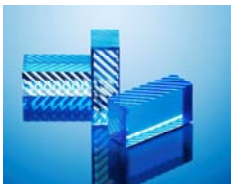


SMO TECHINFO SHEET 06 - PRODUCTS AND SERVICES



SUSS MicroOptics: More than 20 years of experience in micro-optics

Leading company for high-quality micro-optics (refractive and diffractive)

Profound experience in optical design, microfabrication and metrology

High quality microlens arrays in 200mm wafer technology

Top rankings for product quality and customer satisfaction from major companies worldwide

Products

Bulk material Fused Silica, Silicon, Borofloat

Wavelength range DUV (193nm) to IR (5µm)

Maximum array size Ø180 mm, 160 mm x 160 mm

Refractive Microlens Arrays

Lens size 10 µm – 2 mm

Lens profiles Plano-convex, bi-convex, spheres, aspheres

Additional features: Double sided lens arrays with precise front-to-back alignment, mounting posts, stop arrays, pupils, pin-holes, alignment marks, self-aligning structures, Wafer-Level Packaging, AR-coating.

Diffractive Optical Elements (DOE)

DOE design Binary, 8-level and 16-level

Very high diffraction efficiency: 98% demonstrated experimentally for 16-level DOEs at 193nm wavelength

Additional features: Alignment marks, AR-coating, hybrid elements (ROE + DOE)

Diffuser

Applications

Fiber Coupling (ROADM, WSS, MUX, DEMUX, Optical Switches)

Shack-Hartmann Sensors (Wavefront Sensing)

Imaging and Illumination Systems (Wafer Stepper, Wafer Inspection)

Laser Diode Collimation (SAC)

Beam-Shaping (Laser Welding, Drilling)

Life Science (Dermatology, Ophtalmology, Confocal Microscopy)

Contact

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