

COMPANY INTRODUCTION

Founded in 2007 and headquartered in Xi'an, China, Focuslight Technologies Inc. is a fast-growing public company (SSE Star Market: 688167) that develops and manufactures high power diode lasers (photon generation), laser optics (photon control), and photonics modules and systems (application solutions) with a focus on automotive, pan-semiconductor, and medical & health application solutions. In 2017, Focuslight successfully acquired LIMO GmbH, and completed the brand unification in January 2022. In January 2024, Focuslight acquired SUSS MicroOptics (now as Focuslight Switzerland). Focuslight owns over 400 patents worldwide and is ISO 14001, ISO 45001, ISO 9001, and IATF 16949 certified. Additional information can be found at www.focuslight.com.

Focuslight Technologies Inc.

Email: sales@focuslight.com

Visit



www.focuslight.com

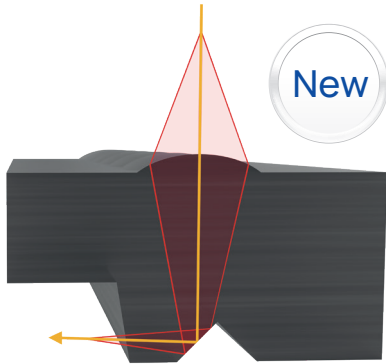
OPTICAL SOLUTIONS FOR TELECOM AND DATACOM APPLICATIONS

Micro Prism Lenses

Monolithic combinations of lens and prism at the micro-scale offer an ideal solution for enhancing the compactness of optical sub-assemblies. This solution offers simplified packaging, alignment accuracy and lower cost.

Features

- Material: Silicon
- Optical function: Re-Focusing, Collimating, 90° Bend
- Emitting devices: PIC Waveguide, Laser Diode, Single / Multi Mode Fiber
- Detection devices: Single / Multi Mode Fiber, Avalanche Photodiode
- Design: Sidewall angles and cavity size / depth can be customized

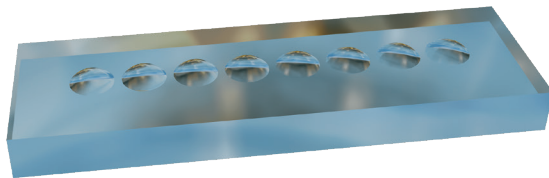


Microlens Arrays

Our customized microlens arrays (MLA) supply efficient light collimation and coupling into fiber optics, as well as Si-Photonics, PIC, WSS, laser diodes, VCSEL, CWDM, DWDM and more.

Features

- Material: Silicon and Fused Silica
- Aspheric round, cylindrical or crossed cylindrical lenses
- Lens pitch accuracy: better than 0.0003mm
- Lens center thickness: 0.3 – 3.0mm
- Lens sag: < 0.09mm
- Lens diameter: 0.02 – 1.5mm
- AR coating: front and backside, against air or epoxy



Our standard elements ideal for coupling and collimation:

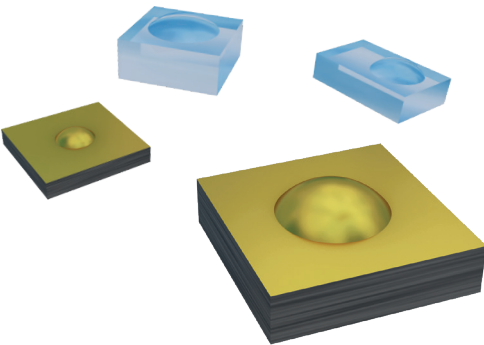
PN	Material	Lens Layout	Pitch (mm)	RoC (mm)	Center Thickness (mm)
C_P750_1x8_18-00999	Fused Silica	1 x 8 linear array	0.75	0.575 ± 3%	1
C_P250_1x4_18-00998	Fused Silica	1 x 4 linear array	0.25	0.192 ± 3%	0.6
C_P250_1x8_18-00997	Fused Silica	1 x 8 linear array	0.25	0.192 ± 3%	0.6
C_P250_1x8_18-00977	Silicon	1 x 8 linear array	0.75	0.192 ± 3%	0.5
C_P750_1x4_18-00978	Silicon	1 x 4 linear array	0.75	1.119 ± 3%	0.5
C_P250_1x4_18-00986	Silicon	1 x 4 linear array	0.25	1.119 ± 3%	0.5
C_P750_1x4_18-00984	Silicon	1 x 4 linear array	0.75	3.2 ± 3%	0.5
C_P250_1x8_18-00985	Silicon	1 x 8 linear array	0.25	1.076 ± 3%	0.5
C_P750_1x4_18-00982	Silicon	1 x 4 linear array	0.75	3.378 ± 3%	0.5
C_P750_1x8_18-00981	Silicon	1 x 8 linear array	0.75	3.378 ± 3%	0.5
C_P750_1x8_18-00983	Silicon	1 x 8 linear array	0.75	3.2 ± 3%	0.5
C_P750_1x4_18-01000	Fused Silica	1 x 4 linear array		0.575 ± 3%	1

Single Microlenses

Single microlenses, designed to achieve high coupling efficiency, are an ideal choice for optical sub-assemblies such as TOSA / ROSA, as well as direct integration in high-speed components.

Features

- Material: Silicon or Fused Silica
- Aspheric lens
- Lens center thickness: 0.3 – 3.0mm
- Lens sag: < 0.09mm
- Lens diameter: 0.02 – 1.5mm
- Lens footprint: > 0.5 x 0.5mm
- Backside cavity up to 20µm
- AR coating: front and backside, against air or epoxy

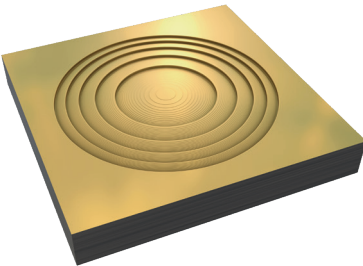


Diffractive Optical Elements

Our fully customized diffractive optical elements (DOE) are suitable for demanding applications such as vortex lenses for fiber interconnects.

Features

- Material: Silicon and Fused Silica
- Composition: 2 (binary) to 16 levels
- Efficiency: > 96%
- Fill factor: 100%
- Lens center thickness / element thickness: 0.6 - 1.0mm
- AR coating: front and backside, against air or epoxy



Applications Served with Our Products

- Transceiver Sub-assembly (TOSA / ROSA)
 - Coarse Wavelength Division Multiplexing
 - Fiber and Extended Beam Connectors
 - Wavelength Selective Switches
- Chip-level Optical Pluggable Connectivity
 - InP Photonic Integrated Circuit and Laser Collimation
 - Fill Factor Improvement and Beam Forming for Optical Phased Arrays
 - Low Loss PIC Coupling for Quantum Silicon Photonics and Photonic Integrated Circuits