

REV.2407A10



www.focuslight.com

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.

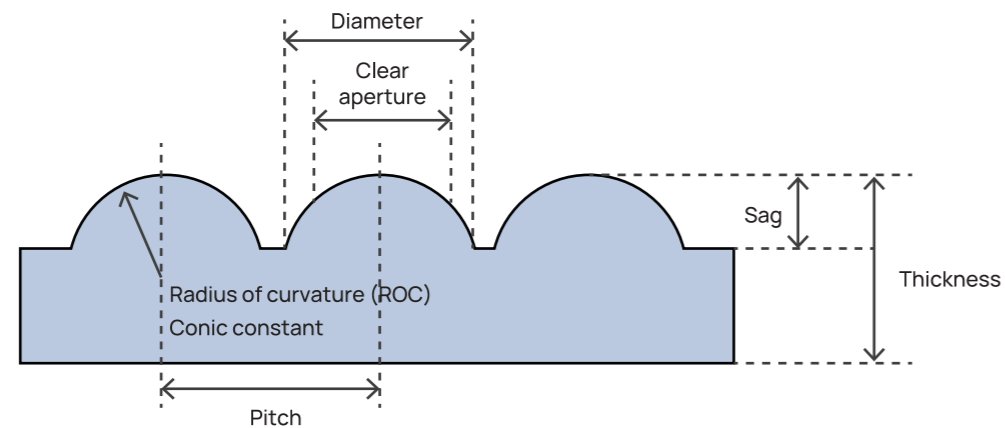
Focuslight Technologies Inc.

Email: sales@focuslight.com

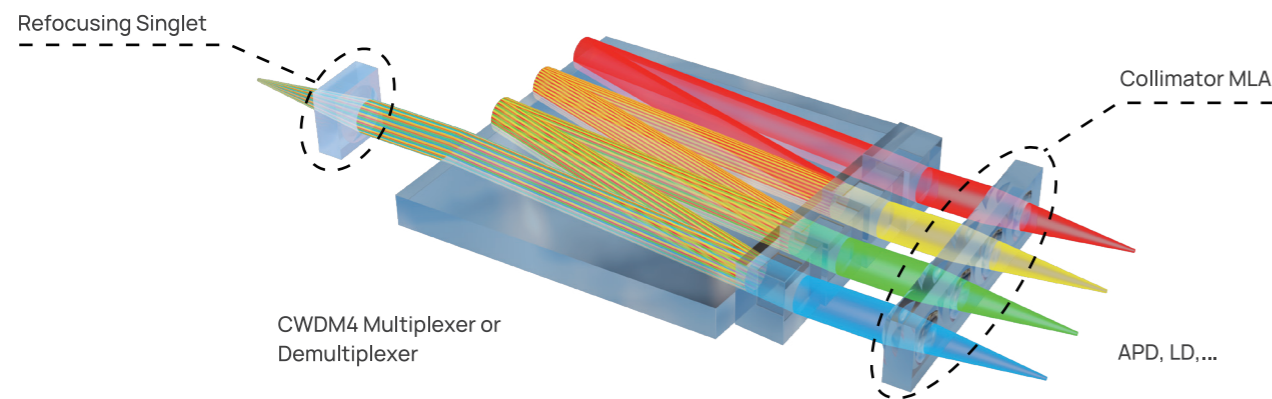
OPTICAL SOLUTIONS FOR TELECOM AND DATACOM APPLICATIONS

Core Parameters

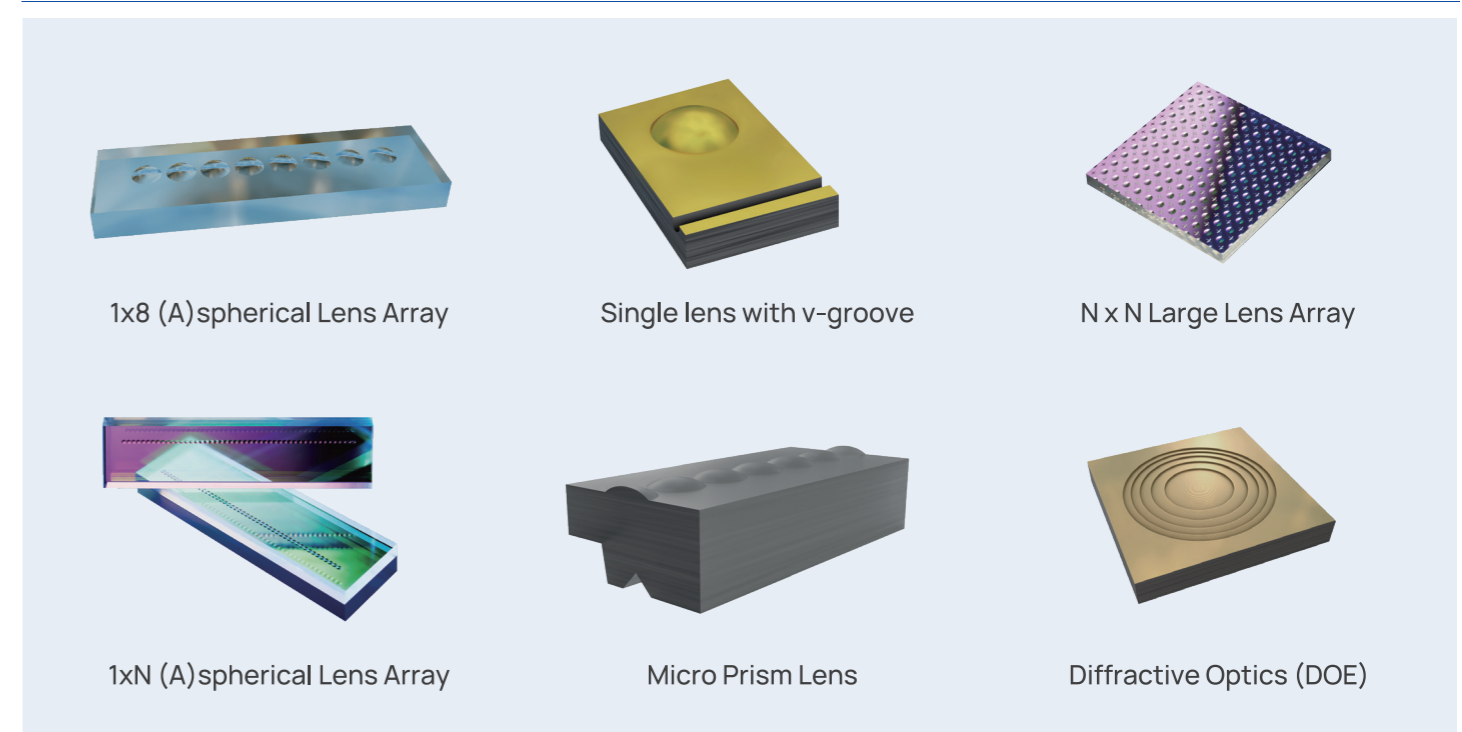
Specifications	Product Types	
Material	Silicon	Fused Silica (various grade)
Profile Deviation	Min RMS < 10nm	Min RMS < 10nm
Reflectivity	AOI=0-15°R < 0.5% @ 1250-1620nm; Customizable(NIR)	AOI=0-15°R < 0.3% @ 1250-1620nm; Customizable(DUV-NIR)
Side Perpendicularity	±1°	±1°
Dimension Tolerance	±15µm	±25µm
Thickness Tolerance	±10µm	±10µm
RoC Range	150-10000µm	150-10000µm
RoC Tolerance	±3%	±3%
RoC Tolerance within Array	±3%	±3%
Surface Roughness	< 5nm	< 5nm
Conic Constant	-5-5	-5-5
Lens Type	Circular, Cylindrical, Square, Hexagonal	Circular, Cylindrical, Square, Hexagonal
Lens Profile	Spheres, Aspheric	Spheres, Aspheric
Lens Arrangement	Linear, Quad, Hexagonal, Single	Linear, Quad, Hexagonal, Single
Array Number	Customizable	Customizable



Typical Light Path Diagram



Products



Key Specifications

Standard products for Fiber Couplers & Collimators

(Part No. Coupler / Collimator)

Product Code	Material	Pitch (µm)	Dimensions(mm)	Radius of Curvature (mm)	Wavelength Range(nm)	Lens Layout	Transmittanc
18-01342	Silicon	/	1.2x0.6x0.5	0.83	1250-1620	Single lens	> 98% (0 - 15°)
18-01339	Silicon	/	1x0.6x0.5	1.1	1250-1620	Single lens	> 98% (0 - 15°)
18-00980	Silicon	250	1.45x0.7x0.38	0.355 ± 3%	1250-1620	1x4 linear array	> 98% (0 - 15°)
18-00979	Silicon	250	2.45x0.7x0.38	0.355 ± 3%	1250-1620	1x8 linear array	> 98% (0 - 15°)
18-01000	Fused Silica	750	2.05x4.3x1	0.575 ± 3%	1250-1620	1x4 linear array	> 98% (0 - 15°)
18-00986	Silicon	250	0.7x1.45x0.5	1.076 ± 3%	1250-1620	1x4 linear array	> 98% (0 - 15°)
18-00984	Silicon	750	2.2x4.45x0.5	3.2 ± 3%	1250-1620	1x4 linear array	> 98% (0 - 15°)
18-00985	Silicon	250	0.7x2.45x0.5	1.076 ± 3%	1250-1620	1x8 linear array	> 98% (0 - 15°)
18-00999	Fused Silica	750	2.05x7.3x1	0.575 ± 3%	1250-1620	1x8 linear array	> 98% (0 - 15°)
18-00998	Fused Silica	250	1.3x2.05x0.6	0.192 ± 3%	1250-1620	1x4 linear array	> 98% (0 - 15°)
18-00978	Silicon	750	2.2x4.45x0.5	1.119 ± 3%	1250-1620	1x4 linear array	> 98% (0 - 15°)
18-00997	Fused Silica	250	1.3x3.05x0.6	0.192 ± 3%	1250-1620	1x8 linear array	> 98% (0 - 15°)
18-00983	Silicon	750	2.2x7.45x0.5	3.2 ± 3%	1250-1620	1x8 linear array	> 98% (0 - 15°)
18-00982	Silicon	750	2.2x4.45x0.5	3.378 ± 3%	1250-1620	1x4 linear array	> 98% (0 - 15°)
18-00981	Silicon	750	2.2x7.45x0.5	3.378 ± 3%	1250-1620	1x8 linear array	> 98% (0 - 15°)
18-00977	Silicon	750	2.2x7.45x0.5	1.119 ± 3%	1250-1620	1x8 linear array	> 98% (0 - 15°)