

- Spherical Lenses
- Cylindrical Lenses
- Lens Kits
- Achromatic Doublets
- Multi-Element
- Micro Optics**
- Mirrors
- Prisms
- Substrates & Windows
- Beamsplitters
- Polarizers
- Filter & Apertures

Microspheres



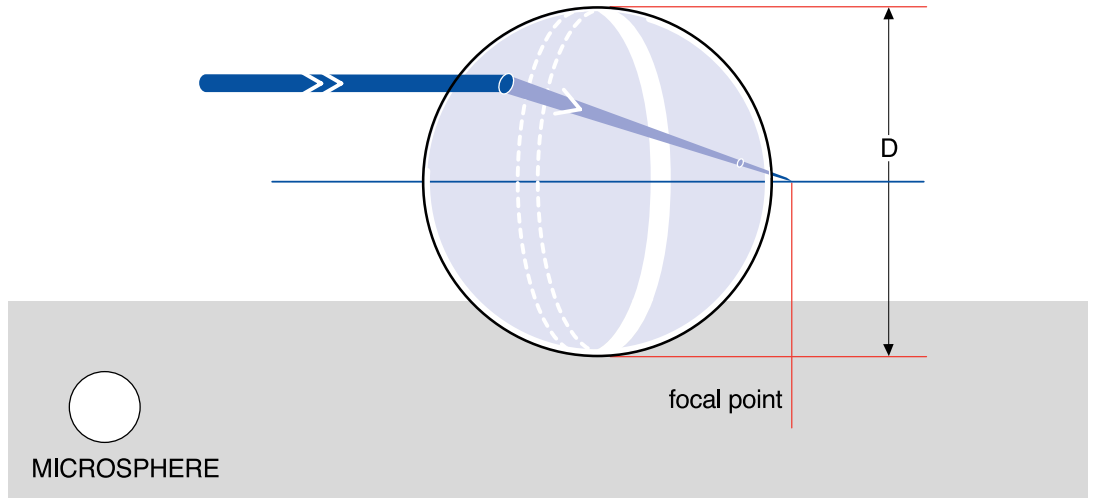
- Ideal for coupling optical fibers to laser diodes and detectors
- $\lambda/4$ surface figure for high performance
- Single layer MgF_2 coated for visible or infrared uses - uncoated also available
- Coating axis is identified for ease of mounting
- Focal lengths from 1 to 3mm - diameters from 2 to 5mm

Microspheres are convenient for coupling light into or out of fibers as well as for relaying images in compact areas. The focal point of a sphere is very close to its surface so the sphere can be placed in contact with the fiber or another sphere for almost perfect coupling. Three different coatings are available. All are single layer MgF_2 coatings which have been optimized for the visible range or either of the two diode laser bands. If a coated microsphere is chosen it will be necessary to maintain the coating axis when in use. This axis is marked with a removable black dot for ease of location.

Specifications & Tolerances

Focal length: $\pm 1\%$ @ 633nm
 Sphericity: $\lambda/4$ @ 633nm
 Material: LaSFN9

Diameter: ± 0.001 mm
 Surface quality: 20-10



Microspheres

Focal Length (mm)	Diameter, D		Price	PART NUMBER
	(inches)	(mm)		
0.5	0.04	1.0		025-0110
1.1	0.08	2.0		025-0120
1.7	0.12	3.0		025-0130
2.8	0.20	5.0		025-0140
4.5	0.31	8.0		025-0150

For **Single Layer AR Anti-Reflection coatings** append appropriate suffix and add \$15 to the price.

- for 400-700nm **append -A27**
- for 700-900nm **append -A38**
- for 1300-1550nm **append -A68**

Please ask us to quote for OEM quantities.

ORDERING
&
TECHNICAL SUPPORT
(949) 851-5881
FAX (949) 851-5058
E-MAIL
sales@optosigma.com
WEB
www.optosigma.com

