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6.35mm Diameter, Ruby Half-Ball Lens

Stock **#49-566** **20+ In Stock**

- 1 + **C$67**.55

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Volume Pricing	
Qty 1-10	**C$67.55** each
Qty 11-49	**C$54.25** each
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General

Type:
Half-Ball Lens

Physical & Mechanical Properties

Diameter (mm):
6.35

Radius R (mm):
3.18

Specific Gravity (g/cm^3):
3.98

Thickness (mm):
3.18

Compressive Strength (psi):
300,000

Diameter Tolerance (µm):
±2.54

Optical Properties

Substrate:
Ruby Doped Sapphire (Al_2O_3)

Coating:
Uncoated

Index of Refraction (n_d):
1.77

Sphericity (µm):
0.64

Environmental & Durability Factors

Melting Temperature (°C):
2053.00

Regulatory Compliance

RoHS 2015:
Compliant

Certificate of Conformance:
View

Reach 247:
Compliant

Need different specs or modifications?

Edmund Optics offers comprehensive custom manufacturing services for optical and imaging components tailored to your specific application requirements. Whether in the prototyping phase or preparing for full-scale production, we provide flexible solutions to meet your needs. Our experienced engineers are here to assist—from concept to completion.

Our capabilities include:

- Custom dimensions, materials, coatings, and more
- High-precision surface quality and flatness
- Tight tolerances and complex geometries
- Scalable production—from prototype to volume

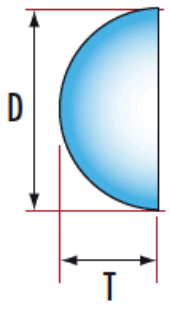
Learn more about our custom manufacturing capabilities or submit an inquiry here.

Product Details

- Excellent for Severe Environments
- High Chemical Stability
- Sapphire and Ruby Ball Lenses Also Available

Sapphire and Ruby Half-Ball Lenses feature a very short back focal length with the convenience of a flat surface for easy mounting. Sapphire features a high index of refraction and excellent broadband transmission characteristics. Ruby half-ball (hemispherical) lenses are easier to see and, therefore, easier to handle for physical applications. Sapphire and Ruby Half-Ball Lenses are very chemically stable and are great for severe environments, high-temperature applications, and applications requiring high melting points. Typical applications include fiber communication, endoscopy, microscopy, optical pick-up devices, and laser measurement systems.

Technical Information



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