

## 5.0mm Diameter, Sapphire Half-Ball Lens



Stock **#48-432** **20+ In Stock**

- 1 + A\$62.<sup>00</sup>

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Volume Pricing	
Qty 1-10	A\$62.80 each
Qty 11-49	A\$50.40 each
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### SPECIFICATIONS

#### General

Half-Ball Lens **Type:**

#### Physical & Mechanical Properties

**Diameter (mm):**

5.00	<b>Radius R (mm):</b>
2.50	
	<b>Specific Gravity (g/cm<sup>3</sup>):</b>
3.98	
	<b>Thickness (mm):</b>
2.50	
	<b>Compressive Strength (psi):</b>
300,000	
	<b>Diameter Tolerance (μm):</b>
±2.54	

### Optical Properties

	<b>Substrate:</b> <input type="checkbox"/>
Sapphire (Al <sub>2</sub> O <sub>3</sub> )	
	<b>Coating:</b>
Uncoated	
	<b>Index of Refraction (n<sub>d</sub>):</b>
1.77	
	<b>Sphericity (μm):</b>
0.64	

### Environmental & Durability Factors

	<b>Melting Temperature (°C):</b>
2053.00	

### Regulatory Compliance

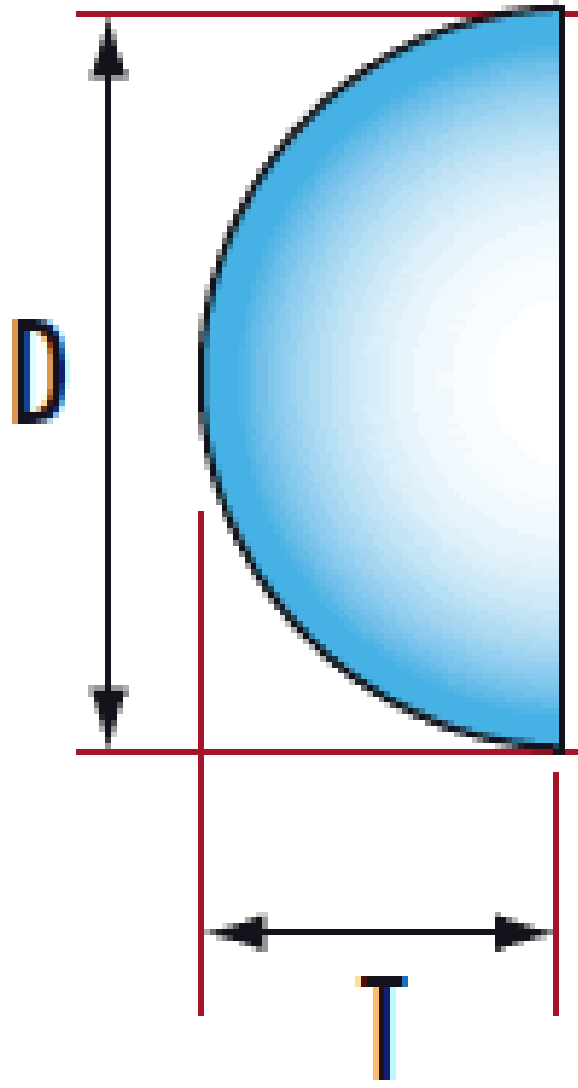
<a href="#">Compliant</a>	<b>RoHS 2015:</b>
<a href="#">View</a>	<b>Certificate of Conformance:</b>
<a href="#">Compliant</a>	<b>Reach 247:</b>

## 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



## CUSTOM

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](#).

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