

2.38mm Diameter, Ruby Ball Lens



Sapphire and Ruby Ball Lenses

Stock **#46-228** **6 In Stock**

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1

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₹1,907

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Volume Pricing	
Qty 1-10	₹1,907 each
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General

Ball Lens

Type:

Physical & Mechanical Properties

2.38

Diameter (mm):

3.98

Specific Gravity (g/cm³):

Compressive Strength (psi):

300,000	
±2.54	Diameter Tolerance (µm):
Optical Properties	
RubyDoped Sapphire (Al ₂ O ₃)	Substrate: □
Uncoated	Coating:
600 - 5500	Wavelength Range (nm):
1.77	Index of Refraction (n _d):
0.625	Sphericity (µm):
0.6 - 5.5	Wavelength Range (µm):
Material Properties	
8.4	Coefficient of Thermal Expansion CTE (10 ⁻⁶ /°C):
0.00	Porosity (%):
Environmental & Durability Factors	
2053.00	Melting Temperature (°C):
Regulatory Compliance	
Compliant	RoHS 2015:
View	Certificate of Conformance:
Compliant	Reach 247:
Switzerland	Country of Origin:
Edmund Optics India Private Limited	Imported By:

Product Details

- Excellent for Severe Environments
 - High Strength and Hardness
 - High Chemical Stability
 - [Sapphire and Ruby Half-Ball Lenses](#) Also Available
- Sapphire and Ruby Ball Lenses are both made from Al2O3. Ruby or Ruby-Doped sapphire owes its red color to traces of chromium oxide (chromium content for ruby balls is typically >0.5%). While their physical and chemical properties are similar, Sapphire has superior optical transmission. Ruby Ball Lenses are easier to see and handle for physical applications. Sapphire and Ruby Ball Lenses are ideal for improving signal coupling between fibers, emitters, and detectors. They are also used in endoscopy, bar code scanning, ball pre-forms for aspheric lenses, and sensor applications. [Sapphire and Ruby Half-Ball Lenses](#) are also available.
- For general information about ball lens, as well as how to calculate the NA and Focal Length, view [Understanding Ball Lenses](#).

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](#).

Compatible Mounts