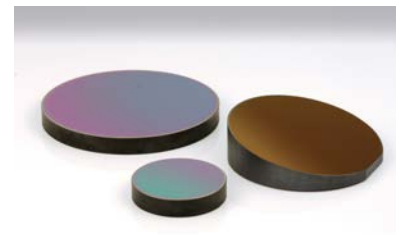
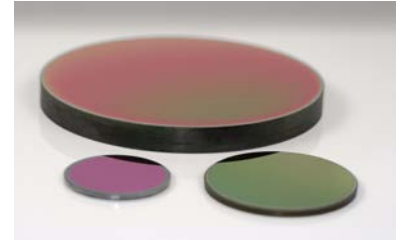


# Germanium Window Capabilities

Knight Optical's most frequently requested specifications for germanium windows are as follows:

<b>Diameter Range</b>	less than 5mm to 300mm
<b>Diameter Tolerance</b>	better than $\pm 0.1$ mm
<b>Centre Thickness</b>	up to 50mm
<b>Centre Thickness Tolerance</b>	better than $\pm 0.05$ mm
<b>Clear Aperture</b>	90%
<b>Centration Tolerance</b>	better than 1 arc minute
<b>Form Error</b>	better than 0.5 wave (633nm) over aperture
<b>Surface Radius Tolerance</b>	less than 1 fringe over aperture
<b>Linear Dimension</b>	up to 300mm
<b>Linear Tolerance</b>	better than $\pm 0.1$ mm
<b>Angular Tolerance</b>	better than 5 arc minutes
<b>Edge Finish</b>	ground, blacked
<b>Chamfer</b>	0.3x0.3@45°
<b>Surface Quality</b>	20-10 scratch/ dig
<b>Coatings</b>	BBAR coating @1-14 $\mu$ m Diamond-Like carbon (DLC) coating @ 1-14 $\mu$ m



Our capabilities are always expanding so if your requirement is not mentioned above please enquire as we have many years of experience in this field.

To keep up with the latest scientific developments, we guarantee that our in-house Metrology and Quality Assurance departments will not only deliver premium, individually inspected and tested optical components to your business, but should there be a need, can deliver bespoke optics designed to your exact specifications.

For more information on any of our optical services, to discuss your requirements or place a direct order with one of our technical sales team, please contact Knight Optical by Email: [info@knightoptical.com](mailto:info@knightoptical.com) or call direct on +44 1622 859 444 (UK, EUR or ROW) +1 401 583 7846 (USA & Canada).