

Quartz (z-cut) windows

The most frequently requested specifications for z-cut quartz windows are as follows:

Diameter range	less than 5mm to 150mm
Diameter tolerance	better than ± 0.1 mm
Centre thickness	up to 50mm
Centre thickness tolerance	better than ± 0.05 mm
Clear aperture	90%
Centration tolerance	better than 1 arc minute
Form error	better than $\lambda/4$ (633nm) over aperture
Surface radius tolerance	less than 1 fringe over aperture
Linear dimension	up to 80mm
Linear tolerance	better than ± 0.1 mm
Angular tolerance	better than 5 arc minutes
Edge finish	ground, blacked
Chamfer	0.3x0.3@45°
Surface quality	20-10 scratch/ dig

Coatings

BBAR coatings @1-2.5 μ m

Diamond-Like Carbon (DLC) coating @1-2.5 μ 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.

Contact our multilingual technical sales team and discover how Knight Optical's high quality z-cut quartz window capabilities and service can improve your instrumentation and supply chain experience.