

- Spherical Lenses
- Cylindrical Lenses
- Lens Kits
- Achromatic Doublets
- Multi-Element
- Micro Optics
- Mirrors
- Prisms

**Substrates & Windows**

- Beamsplitters
- Polarizers
- Filter & Apertures

*Sapphire is very hard and is resistant to abrasion. For that very reason it is difficult to grind and polish to high levels of optical quality. Residual surface streaks, scratches, and a low level of minor surface pits are all too common on many sapphire parts from less experienced suppliers. Our optical shops have worked sapphire successfully for years - assuring you of a high and repeatable level of surface quality.*

## Sapphire Windows

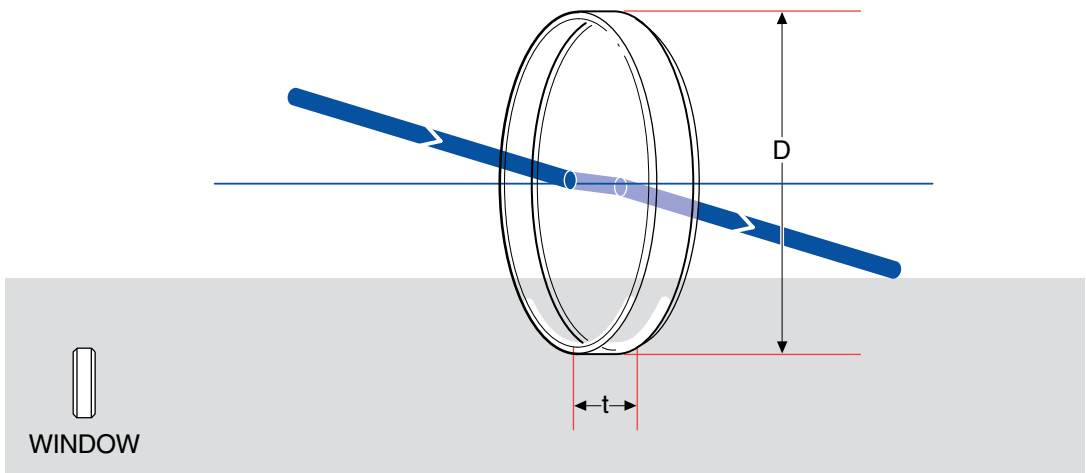
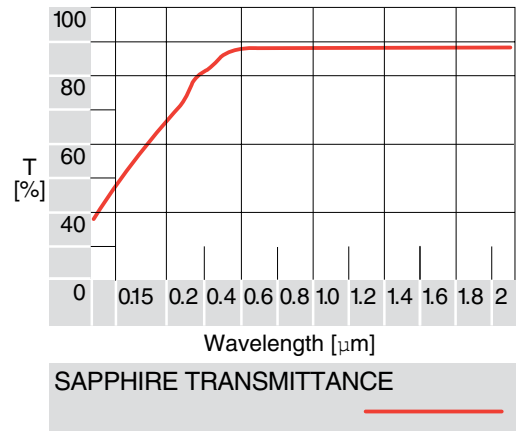
- High durability
- Broad transmission spectrum
- Standard diameters from 10mm to 50mm



When the most durable surface is required these sapphire windows provide the best solution. Sapphire has a very high abrasion resistance and a broad transmission spectrum covering the visible and near infrared regions of the spectrum (200nm to over 2microns).

### Specifications & Tolerances

Material: Optical quality crystal sapphire  
 Diameter: +0, -0.2mm  
 Transmitted wavefront distortion:  $\lambda/4$   
 Surface quality: 40-20  
 Both sides polished  
 Refractive index: 1.77 @ 500nm  
 Thickness:  $\pm 0.2$ mm  
 Parallelism:  $\leq 3$ arcmin  
 Bevel: 0.2mmx45° typical  
 Crystal axis cut: random  
 (c-cut available upon request)



### Sapphire Windows

Diameter, D (Inches)	Diameter, D (mm)	Thickness, t (mm)	Price	PART NUMBER
0.39	10.0	2.0		046-0010
0.79	20.0	2.0		046-0020
1.18	30.0	2.0		046-0040
1.97	50.0	2.0		046-0060

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