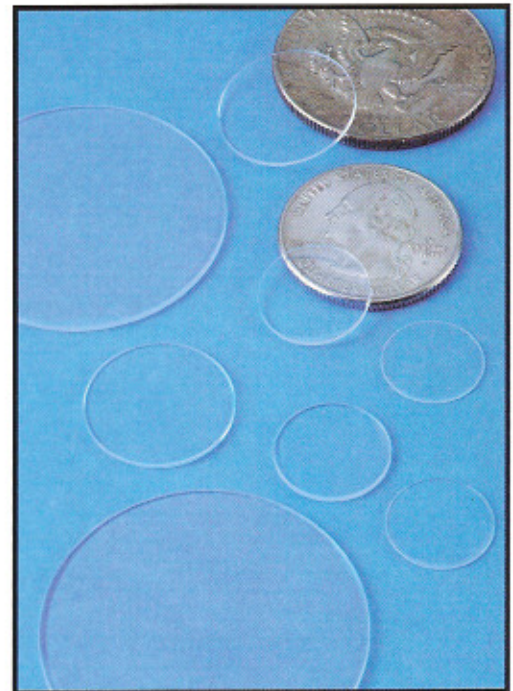


## IR Quality Sapphire Windows

MSW Series plane parallel sapphire windows are an economical choice for a variety of optical, mechanical and electronic applications. Their high transmission, strength, chemical inertness, wear resistance, temperature stability, and low cost make them ideal for use in high volume production applications such as:

- High intensity UV lamps
- Endoscopic components
- Medical & Industrial gas analysis & monitoring
- Furnace viewports
- Cryogenic viewports
- UV, Visible & IR windows and cover slides
- Pressure & Detection cells
- Bar Code Readers
- Photodiodes

We maintain a substantial inventory of these parts and most are available for shipment from stock. For more demanding applications, we offer Optical and Laser Quality Windows.



<b>Size Availability</b> .....	Per chart
<b>Material</b> .....	IR grade single crystal sapphire
<b>Orientation</b> .....	Random
<b>Diameter Tolerance</b> .....	Through 1.0" ± 0.002", over 1.0" +/- 0.004"
<b>Thickness Tolerance</b> .....	Through 1.0" ± 0.002" , over 1.0" +/- 0.004"
<b>Clear Aperture</b> .....	Central 90% of the diameter
<b>Parallelism</b> .....	3 arc minutes
<b>Surface Quality</b> .....	80-50 scratch-dig per MIL-O-13830A
<b>Flatness</b> .....	10 λ per inch at 0.633μm

<b>Series MSW IR Quality Sapphire Windows</b>				
Insert <b>MSW</b> Prefix when ordering. All Dimensions in Inches.				
<b>Thickness</b>	<b>0.020</b>	<b>0.040</b>	<b>0.080</b>	<b>0.125</b>
<b>Diameter</b>				
<b>0.250</b>	025/020	025/040	025/080	025/125
<b>0.375</b>	037/020	037/040	037/080	037/125
<b>0.500</b>	050/020	050/040	050/080	050/125
<b>0.625</b>	062/020	062/040	062/080	062/125
<b>0.750</b>	075/020	075/040	075/080	075/125
<b>1.000</b>	100/020	100/040	100/080	100/125
<b>1.250</b>	125/020	125/040	125/080	125/125
<b>1.500</b>	150/020	150/040	150/080	150/125
<b>1.750</b>		175/040	175/080	175/125
<b>2.000</b>		200/040	200/080	200/125

*Don't see what you're looking for? Call us for your custom optics needs!*

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