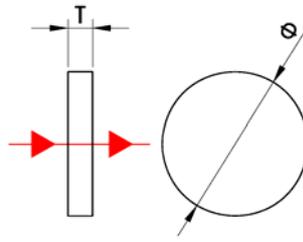


Sapphire Window



Single crystal sapphire possesses a unique combination of excellent optical, physical and chemical properties. The hardest of the oxide crystals, sapphire retains its high strength at high temperatures, has good thermal properties and excellent transparency. It is chemically resistant to common acids and alkali at temperatures up to 1000 °C as well as to HF below 300°C .These properties encourage its wide use in hostile environments where optical transmission in the range from the vacuum ultraviolet to the near infrared is required. Sapphire is anisotropic hexagonal crystal. Its properties depend on crystallographic direction (relative to the optical c-axis).

Features:

- ①Transmission in 0.3~5.0μm, no absorption in 2~3μm
- ②Extremely hard and durable
- ③High thermal conductivity
- ④High bulk damage threshold

Grade	H	S
Material	Anisotropic synthetic sapphire crystal(Al_2O_3)	
Orientation	Random	
Diameter Tolerance	$\pm 0.1mm$	
Thickness Tolerance	$\pm 0.1mm$	
Clear Aperture	$>90\%$	
Parallelism	3'	5'
Flatness (@632.8nm)	2λ	3λ
Surface Quality	80/50	120/80
Bevel	Protective	
Coating	Uncoated	

P/N	Φ	T	Grade
10301	5.00	0.50	H
10302	6.35	0.50	H
10303	10.00	1.00	H
10304	12.70	1.00	H
10305	15.00	1.00	H
10306	20.00	1.00	H
10307	25.40	2.00	H
10308	5.00	0.50	S
10309	6.35	0.50	S
10310	10.00	1.00	S
10311	12.70	1.00	S
10312	15.00	1.00	S
10313	20.00	1.00	S
10314	25.40	2.00	S

- Demension unit:mm
- Other sizes and coatings are available upon request.