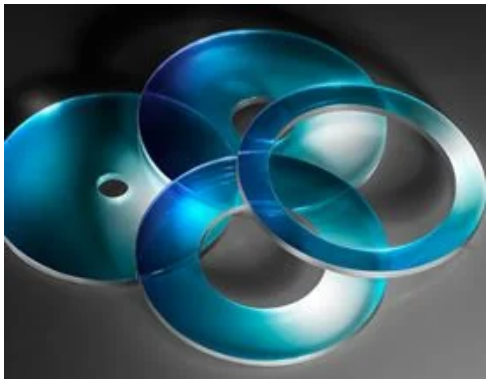
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Family ID #4163

All Products Optics Windows and Diffusers UV and IR Windows

Sapphire Windows with Through Holes



- 25.4mm Diameter Sapphire Substrates
- 3.2 - 19.1mm Through Hole Diameters
- High Transmission From 0.33 - 5.5µm

Common Specifications

Type of Window:	Crystal		
Diameter (mm):	25.40 ±0.127		
Thickness (mm):	1.00 ±0.127	**Parallelism (arcmin):**	≤3.5
Bevel:	Protective as needed	**Poisson's Ratio:**	0.27
Young's Modulus (GPa):	435	**Knoop Hardness (kg/mm^2):**	1,900.00
Knoop Hardness (GPa):	1,900		
Coating:	Uncoated		
Substrate:	Sapphire (Al_2O_3)	**Index of Refraction (n_d):**	1.77

Surface Quality:	80-50	**Abbe Number (v_d):**	72.24
Surface Roughness (µm):	0.1 per Inch	**Birefringence (n_o-n_e):**	0.008 for Visible Light Orthogonal to Optical Axis
Axis Orientation:	Random	**Wavelength Range (nm):**	330 - 5500
Surface Flatness (P-V):	2λ (typical)		
Density (g/cm^3):		3.97	
Coefficient of Thermal Expansion CTE (10^{-6}/°C):		8.8	

Technical Information

Products

Dia. (mm)	Through Hole Diameter (mm)	Thickness (mm)	Coating	Stock Number	Price	Buy
25.40	3.20	1.00	Uncoated	#17-215	$133.00 Volume Pricing	20+ In Stock
25.40	6.35	1.00	Uncoated	#17-214	$133.00 Volume Pricing	20+ In Stock
25.40	12.70	1.00	Uncoated	#17-213	$133.00 Volume Pricing	2 In Stock
25.40	19.10	1.00	Uncoated	#17-212	$133.00 Volume Pricing	13 In Stock

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