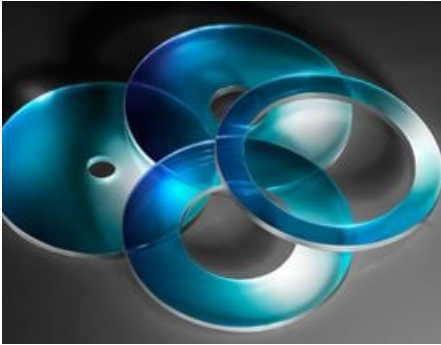


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## Sapphire Windows with Through Holes



- 25.4mm Diameter Sapphire Substrates
- 3.2 - 19.1mm Through Hole Diameters
- High Transmission From 0.33 - 5.5 $\mu$ m

# Common Specifications

Physical & Mechanical Properties			
Bevel:	Protective as needed	Diameter (mm):	25.40 ±0.127
Thickness (mm):	1.00 ±0.127	Knoop Hardness (kg/mm <sup>2</sup> ):	1900
Parallelism (arcmin):	≤3.5	Poisson's Ratio:	0.27
Young's Modulus (GPa):	435		
Optical Properties			
Abbe Number (v <sub>d</sub> ):	72.24		
Axis Orientation:	Random	Birefringence (n <sub>o</sub> -n <sub>e</sub> ):	0.008 for Visible Light Orthogonal to Optical Axis
Coating:	Uncoated	Index of Refraction (n <sub>d</sub> ):	1.77
Substrate:	Sapphire (Al <sub>2</sub> O <sub>3</sub> )	Surface Flatness (P-V):	2λ (typical)
Surface Quality:	80-50	Wavelength Range (nm):	330 - 5500
Material Properties			
Coefficient of Thermal Expansion CTE (10 <sup>-6</sup> /°C):	8.8	Density (g/cm <sup>3</sup> ):	3.97

## Technical Information

## Products

Dia. (mm)	Through Hole Diameter (mm)	Thickness (mm)	Coating	Stock Number	Price	Buy
25.40	3.20	1.00	Uncoated	<a href="#">#17-215</a>	₹8,289 Qty 6+ ₹7,115	10 to 12 days
25.40	6.35	1.00	Uncoated	<a href="#">#17-214</a>	₹8,289 Qty 6+ ₹7,115	10 to 12 days
25.40	12.70	1.00	Uncoated	<a href="#">#17-213</a>	₹8,289 Qty 6+ ₹7,115	10 to 12 days
25.40	19.10	1.00	Uncoated	<a href="#">#17-212</a>	₹8,289 Qty 6+ ₹7,115	10 to 12 days



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