

# 12.7mm Dia., 1mm Thick, Uncoated, ISP Optics Gallium Arsenide (GaAs) Window | GA-W-12-1

See More by [ISP Optics](#)



Gallium Arsenide (GaAs) Windows

Stock **#16-800** CLEARANCE **1 In Stock**

⊖ 1 ⊕ **C\$347<sup>20</sup>**

**ADD TO CART**

Volume Pricing	
Qty 1+	C\$347.20 each
Need More?	<a href="#">Request Quote</a>

Product Downloads

## SPECIFICATIONS

### General

Protective Window

Type:

Model Number:

## Physical & Mechanical Properties

Protective as needed	<b>Bevel:</b>
85	<b>Clear Aperture (%):</b>
10.80	<b>Clear Aperture CA (mm):</b>
12.70 +0.00/-0.13	<b>Diameter (mm):</b>
1.00 ±0.13	<b>Thickness (mm):</b>
Fine Ground	<b>Edges:</b>
750.00	<b>Knoop Hardness (kg/mm<sup>2</sup>):</b>
<3	<b>Parallelism (arcmin):</b>
0.31	<b>Poisson's Ratio:</b>
85	<b>Young's Modulus (GPa):</b>

## Optical Properties

Uncoated	<b>Coating:</b>
3.293 @ 7µm 3.279 @ 10µm 3.267 @ 12µm	<b>Index of Refraction (n<sub>d</sub>):</b>
<a href="#">Gallium Arsenide (GaAs)</a>	<b>Substrate:</b>
N10 @ 10.6µm	<b>Surface Flatness (P-V):</b>
60-40	<b>Surface Quality:</b>
1000 - 16000	<b>Wavelength Range (nm):</b>

## Material Properties

5.39 (0 to +30°C)	<b>Coefficient of Thermal Expansion CTE (10<sup>-6</sup>/°C):</b>
5.32	<b>Density (g/cm<sup>3</sup>):</b>

## Regulatory Compliance

<a href="#">Compliant</a>	<b>RoHS 2015:</b>
<a href="#">View</a>	<b>Certificate of Conformance:</b>
<a href="#">Compliant</a>	<b>Reach 240:</b>

## PRODUCT DETAILS

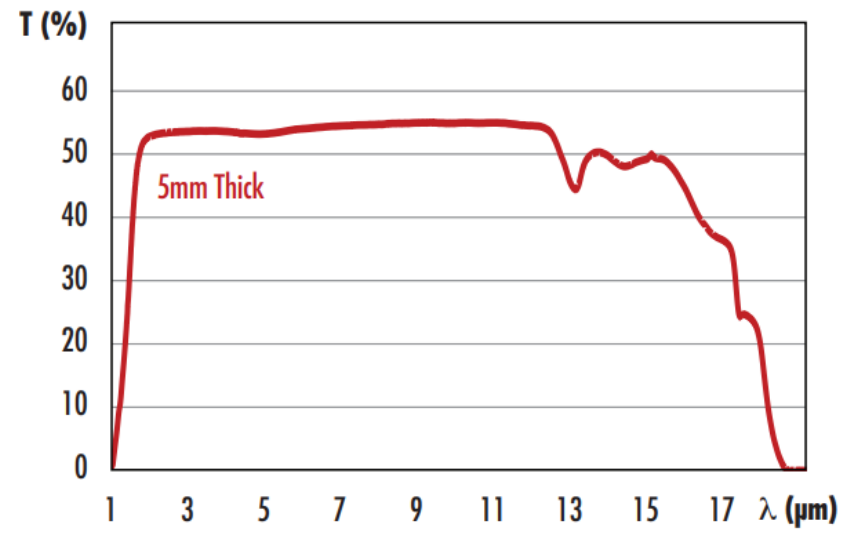
- Broad Transmission Range from 1 - 16µm
- Tough, Durable Infrared Material
- Water Insoluble and Chemically Stable

ISP Optics Gallium Arsenide (GaAs) Windows transmit infrared light from 1 - 16µm and are opaque in the visible spectrum. Gallium arsenide is a tough, durable material with a Knoop hardness of 750, allowing for its use as a protective window in laser material processing applications where dust, metallic, or abrasive particle debris is expected. ISP Optics Gallium Arsenide (GaAs) Windows are ideal for thermal imaging, forward looking infrared (FLIR), or CO<sub>2</sub> laser applications requiring durable optics. Gallium arsenide is insoluble in water and chemically stable except against strong acids.

**Note:** Gallium arsenide is a hazardous material and should be handled with gloves.

## TECHNICAL INFORMATION

## Gallium Arsenide (GaAs)



## SPECIAL HANDLING

These optics require special handling to avoid damage and ensure long-term performance. Proper handling, cleaning, and storage are essential to maintain optical quality. Explore our [Optics Cleaning Resources](#) for step-by-step guides and best practices. For personalized assistance, [Email us](#) or [Chat](#) with our technical support team.



Component Handling Tools