

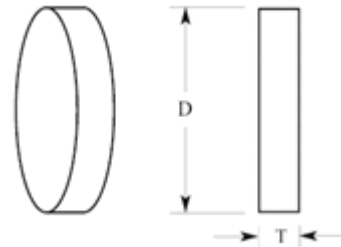
GALLIUM ARSENIDE(GaAs) WINDOWS

GaAs provides an alternative to ZnSe in medium and high power CW CO2 laser systems for lenses and beam splitters. It is particularly useful in applications where toughness and durability are important. Its hardness and strength make it a good choice where dust or abrasive particles from the workpiece tend to build up on, or bombard an optical surface. Often in cases where frequent cleaning by wiping is required, use of GaAs will extend optic lifetime. The material is non-hygroscopic, safe to use in labs and field applications and it is chemically stable except when contacted with strong acids.

Non-coated and AR coated products are available.

Standard Specifications:

Optical Material:	Gallium arsenide
Diameter Tolerance:	+0.0, -0.1mm
Thickness Tolerance:	± 0.2mm
Clear Aperture:	>90%
Parallelism:	<3 arc minutes
Surface Quality:	see the table
Wavefront Distortion:	see the table
Bevel:	<0.25mm X 45°
Coating:	available upon request



Standard GaAs Windows

Dia(mm)	Thickness(mm)	Wavefront Distortion	Surface Quality	Product Number
10.0	2.0	Lambda	60-40	UQT-WNGA0101
12.7	2.0	Lambda	60-40	UQT-WNGA0102
18.0	2.0	Lambda	60-40	UQT-WNGA0103
25.4	3.0	Lambda	60-40	UQT-WNGA0104
38.10	3.0	Lambda	60-40	UQT-WNGA0105

Please Contact [ultiQuest](#) for other dimensions in prototype and production quantities.

NOTES!

- ➔ Be sure to wear laser safety goggles when checking optical path and adjusting optical axis.