

25.4mm Dia., 1mm Thick, Uncoated, ISP Optics AMTIR-1 Window | AM-W-25-1



AMTIR-1 Windows

Stock **#16-796** CLEARANCE **2 In Stock**

-

1

+

£476⁰⁰

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Volume Pricing	
Qty 1+	£476.00 each
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Prices shown are exclusive of VAT/local taxes

Product Downloads

General	
Protective Window	Type:
AM-W-25-1	Model Number:

Physical & Mechanical Properties	
Protective as needed	Bevel:
	Clear Aperture (%):

85	
21.59	Clear Aperture CA (mm):
25.40 +0.00/-0.13	Diameter (mm):
1.00 ±0.13	Thickness (mm):
Fine Ground	Edges:
170.00	Knoop Hardness (kg/mm²):
<3	Parallelism (arcmin):
0.21	Poisson's Ratio:
21.2	Young's Modulus (GPa):

Optical Properties	
Uncoated	Coating:
2.519 @ 3µm 2.503 @ 8µm 2.490 @ 12µm	Index of Refraction (n _d):
AMTIR-1 (Ge ₃₃ As ₁₂ Se ₅₅)	Substrate:
λ/10 @ 10.6µm	Surface Flatness (P-V):
40-20	Surface Quality:
750 - 14000	Wavelength Range (nm):

Material Properties	
12.6	Coefficient of Thermal Expansion CTE (10 ⁻⁶ /°C):
4.43	Density (g/cm³):

Regulatory Compliance	
Compliant	RoHS 2015:
View	Certificate of Conformance:
Compliant	Reach 240:

Product Details

- Transmission from 750nm - 14µm
- Excellent Chemical Resistance to Acids
- Low Index of Refraction

ISP Optics AMTIR-1 (Amorphous Material Transmitting Infrared Radiation) Windows are constructed from a chalcogenide material, Ge₃₃As₁₂Se₅₅, and transmit infrared light from 750nm to 14µm. AMTIR-1 is water insoluble and has excellent chemical resistance to acids, enabling these windows to be used in harsh environments as protective windows. Compared to germanium windows, these windows have a lower index of refraction and do not experience thermal runaway, allowing for their use uncoated and in elevated temperatures up to 300°C. ISP Optics AMTIR-1 Windows are ideal for use in infrared imaging systems, non-contact temperature measurement systems, forward-looking infrared (FLIR) cameras, and low power infrared laser systems.

Technical Information



