

## 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

+

€595<sup>00</sup>

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| Volume Pricing |                               |
|----------------|-------------------------------|
| Qty 1+         | €595,00 each                  |
| Need More?     | <a href="#">Request Quote</a> |

**i** 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<br>2.503 @ 8µm<br>2.490 @ 12µm                    | Index of Refraction (n <sub>d</sub> ): |
| AMTIR-1 (Ge <sub>33</sub> As <sub>12</sub> Se <sub>55</sub> ) | 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 <sup>-6</sup> /°C): |
| 4.43                | Density (g/cm³):                                             |

|                           |                             |
|---------------------------|-----------------------------|
| Regulatory Compliance     |                             |
| <a href="#">Compliant</a> | RoHS 2015:                  |
| <a href="#">View</a>      | Certificate of Conformance: |
| <a href="#">Compliant</a> | 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, Ge<sub>33</sub>As<sub>12</sub>Se<sub>55</sub>, 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



