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## ISP Optics Germanium (Ge) Windows See More by [ISP Optics](#)



- Minimal Chromatic Aberration Due to Low Dispersion
- Uncoated Transmission from 2 – 16 $\mu$ m
- Available with BBAR or DLC Coating for 8 – 12 $\mu$ m
- Due to material supply chain disruptions with germanium, there may be increased lead times and price changes on our germanium products. For more information, please contact our [customer service team](#).
- Edmund Optics has limited remaining inventory of this part number and no raw material available to supply more once this is depleted. Please contact our Product Support Engineers to help with an alternate solution for your needs. Customer Service can provide you the latest price and availability.

# Common Specifications

| Physical & Mechanical Properties                             |                      |                        |                                |
|--------------------------------------------------------------|----------------------|------------------------|--------------------------------|
| Bevel:                                                       | Protective as needed | Clear Aperture (%):    | 85                             |
| Thickness (mm):                                              | 3.00 ±0.13           | Edges:                 | Fine Ground                    |
| Knoop Hardness (kg/mm <sup>2</sup> ):                        | 780.00               | Parallelism (arcmin):  | <3                             |
| Poisson's Ratio:                                             | 0.28                 | Young's Modulus (GPa): | 102.7                          |
| Optical Properties                                           |                      |                        |                                |
| Index of Refraction (n <sub>d</sub> ):                       | 4.002 @ 11µm         | Substrate:             | <a href="#">Germanium (Ge)</a> |
| Surface Flatness (P-V):                                      | λ/10 @ 10.6µm        | Surface Quality:       | 40-20                          |
| Wavelength Range (nm):                                       | 2000 - 14000         |                        |                                |
| Material Properties                                          |                      |                        |                                |
| Coefficient of Thermal Expansion CTE (10 <sup>-6</sup> /°C): |                      | 6.1                    |                                |
| Density (g/cm <sup>3</sup> ):                                |                      | 5.33                   |                                |

## Technical Information

## Products

| Dia.<br>(mm) | Thickness<br>(mm) | Coating                                          | Model<br>Number  | Stock<br>Number         | Price       | Buy          |
|--------------|-------------------|--------------------------------------------------|------------------|-------------------------|-------------|--------------|
| 25.40        | 3.00              | BBAR (8000-12000nm)                              | AR812-GE-W-25-3  | <a href="#">#24-572</a> | C\$571.20   | 2 In Stock   |
| 38.10        | 3.00              | S1: DLC<br>Coating<br>S2: BBAR<br>(8000-12000nm) | DLC812-GE-W-38-3 | <a href="#">#24-578</a> | C\$1,101.80 | 20+ In Stock |



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