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## TECHSPEC® Germanium (Ge) Windows



- Uncoated or with AR Coatings Designed for a Variety of IR Ranges
- Minimal Chromatic Aberration Due to Low Dispersion
- Ideal for Infrared Applications Requiring Rugged Optics
- [DLC Coated Germanium Windows](#) are also Available
- 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 | Knoop Hardness (kg/mm <sup>2</sup> ): | 780.00 |
| Poisson's Ratio: | 0.28                 | Young's Modulus (GPa):                | 102.7  |

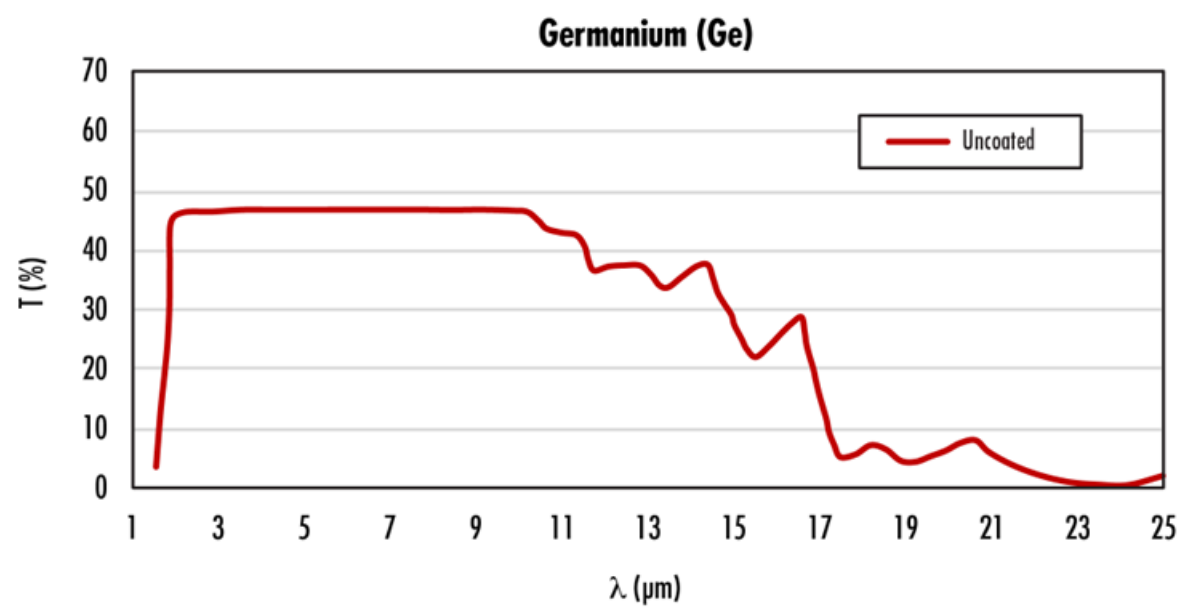
#### Optical Properties

|            |                |
|------------|----------------|
| Substrate: | Germanium (Ge) |
|------------|----------------|

#### 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                | Stock Number            | Price   | Buy          |
|--------------|-------------------|------------------------|-------------------------|---------|--------------|
| 10.00        | 1.50              | Uncoated               | <a href="#">#68-734</a> | £300.00 | 20+ In Stock |
| 10.00        | 1.50              | BBAR<br>(3000-5000nm)  | <a href="#">#89-558</a> | £424.00 | 10 In Stock  |
| 10.00        | 1.50              | BBAR<br>(3000-12000nm) | <a href="#">#62-643</a> | £424.00 | 4 In Stock   |
| 10.00        | 1.50              | BBAR<br>(8000-12000nm) | <a href="#">#47-685</a> | £424.00 | 20+ In Stock |
| 12.50        | 1.00              | Uncoated               | <a href="#">#83-341</a> | £339.20 | 20+ In Stock |
| 12.50        | 1.00              | BBAR<br>(3000-12000nm) | <a href="#">#83-347</a> | £464.00 | Contact Us   |
| 12.50        | 1.00              | BBAR<br>(8000-12000nm) | <a href="#">#83-353</a> | £464.00 | 20+ In Stock |
| 12.50        | 2.00              | Uncoated               | <a href="#">#68-735</a> | £348.00 | Contact Us   |
| 12.50        | 2.00              | BBAR<br>(3000-5000nm)  | <a href="#">#89-560</a> | £472.00 | Contact Us   |
| 12.50        | 2.00              | BBAR<br>(8000-12000nm) | <a href="#">#47-686</a> | £472.00 | 20+ In Stock |
| 12.50        | 3.00              | BBAR<br>(3000-5000nm)  | <a href="#">#89-561</a> | £480.00 | Contact Us   |

[#74-430 Clearance](#)



Clearance

|       |      |          |  |         |            |
|-------|------|----------|--|---------|------------|
| 12.70 | 3.00 | Uncoated | Availability is limited,<br>so buy before these<br>products disappear.<br>Sorry, we cannot<br>accept returns.<br>Receive up to 80%<br>off select products. | £382.40 | 6 In Stock |
|-------|------|----------|--|---------|------------|

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[#74-433 Clearance](#)



Clearance

|       |      |                            |  |         |            |
|-------|------|----------------------------|--|---------|------------|
| 12.70 | 3.00 | AR<br>Coated: 7<br>- 12 µm | Availability is limited,<br>so buy before these<br>products disappear.<br>Sorry, we cannot<br>accept returns.<br>Receive up to 80%<br>off select products. | £480.00 | 5 In Stock |
|-------|------|----------------------------|--|---------|------------|

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|       |      |          |                         |         |              |
|-------|------|----------|-------------------------|---------|--------------|
| 20.00 | 2.00 | Uncoated | <a href="#">#68-736</a> | £416.00 | 20+ In Stock |
|-------|------|----------|-------------------------|---------|--------------|

|       |      |                           |                         |         |             |
|-------|------|---------------------------|-------------------------|---------|-------------|
| 20.00 | 2.00 | BBAR<br>(3000-<br>5000nm) | <a href="#">#89-562</a> | £548.00 | 15 In Stock |
|-------|------|---------------------------|-------------------------|---------|-------------|

|       |      |                            |                         |         |              |
|-------|------|----------------------------|-------------------------|---------|--------------|
| 20.00 | 2.00 | BBAR<br>(8000-<br>12000nm) | <a href="#">#63-213</a> | £548.00 | 20+ In Stock |
|-------|------|----------------------------|-------------------------|---------|--------------|

|       |      |          |                         |         |            |
|-------|------|----------|-------------------------|---------|------------|
| 25.00 | 1.00 | Uncoated | <a href="#">#83-343</a> | £456.00 | 4 In Stock |
|-------|------|----------|-------------------------|---------|------------|

|       |      |                           |                         |         |            |
|-------|------|---------------------------|-------------------------|---------|------------|
| 25.00 | 2.00 | BBAR<br>(3000-<br>5000nm) | <a href="#">#89-564</a> | £680.00 | 6 In Stock |
|-------|------|---------------------------|-------------------------|---------|------------|

|       |      |          |                         |         |              |
|-------|------|----------|-------------------------|---------|--------------|
| 25.00 | 3.00 | Uncoated | <a href="#">#68-737</a> | £488.00 | 20+ In Stock |
|-------|------|----------|-------------------------|---------|--------------|

|       |      |                           |                         |         |             |
|-------|------|---------------------------|-------------------------|---------|-------------|
| 25.00 | 3.00 | BBAR<br>(3000-<br>5000nm) | <a href="#">#89-565</a> | £696.00 | 12 In Stock |
|-------|------|---------------------------|-------------------------|---------|-------------|

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|       |      |                        |                         |         |              |
|-------|------|------------------------|-------------------------|---------|--------------|
| 25.00 | 5.00 | Uncoated               | <a href="#">#23-139</a> | £520.00 | 20+ In Stock |
| 25.00 | 5.00 | BBAR<br>(8000-12000nm) | <a href="#">#23-154</a> | £724.00 | 4 In Stock   |
| 25.40 | 3.00 | Uncoated               | <a href="#">#11-862</a> | £460.00 | 10 In Stock  |
| 25.40 | 3.00 | BBAR<br>(3000-5000nm)  | <a href="#">#11-865</a> | £696.00 | 2 In Stock   |
| 25.40 | 3.00 | BBAR<br>(8000-12000nm) | <a href="#">#11-871</a> | £696.00 | 1 In Stock   |

[#74-431 Clearance](#)



Clearance

|       |      |          |  |         |              |
|-------|------|----------|--|---------|--------------|
| 25.40 | 5.00 | Uncoated | Availability is limited,<br>so buy before these<br>products disappear.<br>Sorry, we cannot<br>accept returns.<br>Receive up to 80%<br>off select products. | £488.00 | 20+ In Stock |
|-------|------|----------|--|---------|--------------|

[#74-432 Clearance](#)



Clearance

|       |      |                             |  |         |            |
|-------|------|-----------------------------|--|---------|------------|
| 25.40 | 5.00 | AR<br>Coated:<br>1.9 - 6 µm | Availability is limited,<br>so buy before these<br>products disappear.<br>Sorry, we cannot<br>accept returns.<br>Receive up to 80%<br>off select products. | £696.00 | 4 In Stock |
|-------|------|-----------------------------|--|---------|------------|

[#74-434 Clearance](#)



Clearance

|       |      |                            |  |         |            |
|-------|------|----------------------------|--|---------|------------|
| 25.40 | 5.00 | AR<br>Coated: 7<br>- 12 µm | Availability is limited,<br>so buy before these<br>products disappear.<br>Sorry, we cannot<br>accept returns.<br>Receive up to 80%<br>off select products. | £480.00 | 2 In Stock |
|-------|------|----------------------------|--|---------|------------|

|       |      |                            |                         |           |              |
|-------|------|----------------------------|-------------------------|-----------|--------------|
| 30.00 | 1.00 | Uncoated                   | <a href="#">#23-140</a> | £580.00   | 11 In Stock  |
| 30.00 | 3.00 | BBAR<br>(8000-<br>12000nm) | <a href="#">#63-214</a> | £824.00   | Contact Us   |
| 40.00 | 2.00 | Uncoated                   | <a href="#">#23-141</a> | £872.00   | 20+ In Stock |
| 40.00 | 4.00 | Uncoated                   | <a href="#">#68-739</a> | £932.00   | 20+ In Stock |
| 40.00 | 4.00 | BBAR<br>(3000-<br>5000nm)  | <a href="#">#89-567</a> | £1,128.00 | 4 In Stock   |
| 40.00 | 4.00 | BBAR<br>(8000-<br>12000nm) | <a href="#">#63-215</a> | £1,128.00 | Contact Us   |
| 50.00 | 1.00 | Uncoated                   | <a href="#">#83-345</a> | £1,104.00 | 13 In Stock  |
| 50.00 | 1.00 | BBAR<br>(3000-<br>5000nm)  | <a href="#">#89-568</a> | £1,404.00 | 3 In Stock   |
| 50.00 | 2.00 | BBAR<br>(3000-<br>5000nm)  | <a href="#">#89-569</a> | £1,424.00 | 14 In Stock  |
| 50.00 | 2.00 | BBAR<br>(8000-<br>12000nm) | <a href="#">#83-358</a> | £1,404.00 | Contact Us   |
| 50.00 | 3.00 | Uncoated                   | <a href="#">#68-740</a> | £1,148.00 | 20+ In Stock |
| 75.00 | 3.00 | Uncoated                   | <a href="#">#23-143</a> | £2,052.00 | Contact Us   |
| 75.00 | 5.00 | Uncoated                   | <a href="#">#68-741</a> | £2,264.00 | Contact Us   |

|        |      |                           |                         |           |            |
|--------|------|---------------------------|-------------------------|-----------|------------|
| 76.20  | 5.00 | BBAR<br>(3000-<br>5000nm) | <a href="#">#11-867</a> | £2,564.00 | 5 In Stock |
| 100.00 | 6.00 | Uncoated                  | <a href="#">#17-669</a> | £4,136.00 | 8 In Stock |



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