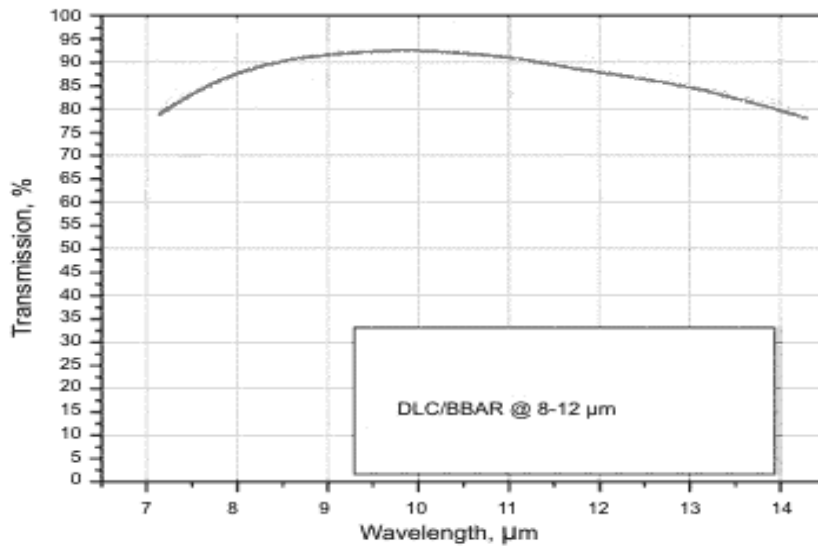




GERMANIUM WINDOW DATA SHEET

40mm Germanium Window AR/DLC Thermal Imaging Germanium Cover window

| | |
|------------------------|---------------------------------|
| Part number: | GE40-2-AR-DLC |
| Diameter | 40.0mm +0.0 / -0.1 |
| Thickness | 2.0mm thick +/- 0.1 |
| Side1 | AR Antireflection coated 8-12µm |
| Side2 | DLC coated |
| Average transmission % | 89% |



| | |
|------------------------|--|
| Transmission Range | 1.8 to 23µm |
| Refractive Index | 4.0026 at 11µm |
| Reflection Loss | 53% at 11µm ---- Two surfaces |
| Absorption Coefficient | <0.027 cm ⁻¹ @ 10.6 µm |
| Density | 5.33 g/cc |
| Melting Point | 936 °C (3) |
| Thermal Expansion | 6.1 x 10 ⁻⁶ /°C at 298K (3)(4) |
| Hardness | Knoop 780 |
| Specific Heat Capacity | 310 J Kg ⁻¹ K ⁻¹ (3) |
| Youngs Modulus (E) | 102.7 GPa (4) |
| Shear Modulus (G) | 67 GPa (4) |
| Bulk Modulus (K) | 77.2 GPa (4) |
| Solubility | Insoluble in water |
| Molecular Weight | 72.59 |
| Class/Structure | Cubic Diamond, Fd3m |

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