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# **TECHSPEC!** 25mm Dia x 25mm FL 3-12µm Coated, Ge Aspheric Lens



Stock #89-610 CLEARANCE CONTACT US

Other Coating Options

1 + £1,453

### **ADD TO CART**

Volume Pricing

Qty 1+ £1,453.33 each

Need More? Request Quote

Prices shown are exclusive of VAT/local taxes

Product Downloads

# **SPECIFICATIONS**

General

Type:
Aspheric Lens

**Physical & Mechanical Properties** 

<b>Diameter (mr</b> 25.00 +0.0/-0.1	n):
Centering (arcmi ≤5	n):
Clear Aperture CA (mr 22.5	n):
Edge Thickness ET (mr	n):
Center Thickness CT (mr 3.45 ±0.10	n):
Protective as needed	el:
Edge Diamond Turned	ss:
Shape of Back Surface Concave	e:
Optical Properties	
Effective Focal Length EFL (mr 25.00 @ 4000nm	n):
Numerical Aperture N 0.50	A:
Back Focal Length BFL (mr 22.51	n):
Germanium (Ge)	
Aspheric Design Wavelength (nr 4000	n):
Asphere Figure Error, RMS @ 632.8n $\mathcal{N}6$	n:
Coatin BBAR (3000-12000nm)	ıg:
Coating Specification $R_{avg}{<}5.0\%\textcircled{@}3{-}12\mu m$	on:
Surface Quali 60-40	ty:
1.00	# <del>:</del>
Radius R₂ (mr 37.8	n):
Wavelength Range (nr 3000 - 12000	n):
Conjugate Distand Infinite	e:
Regulatory Compliance	
RoHS 201	5:
Certificate of Conformance View	æ:
REACH 2-	M:

### PRODUCT DETAILS

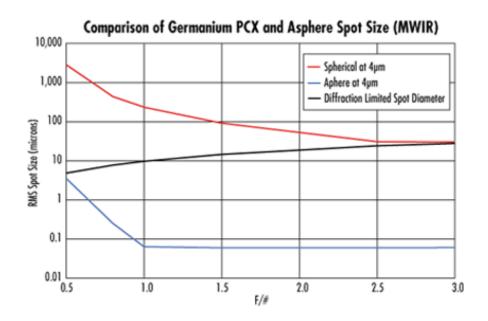
- Diffraction Limited Performance
- Variety of Coating Options

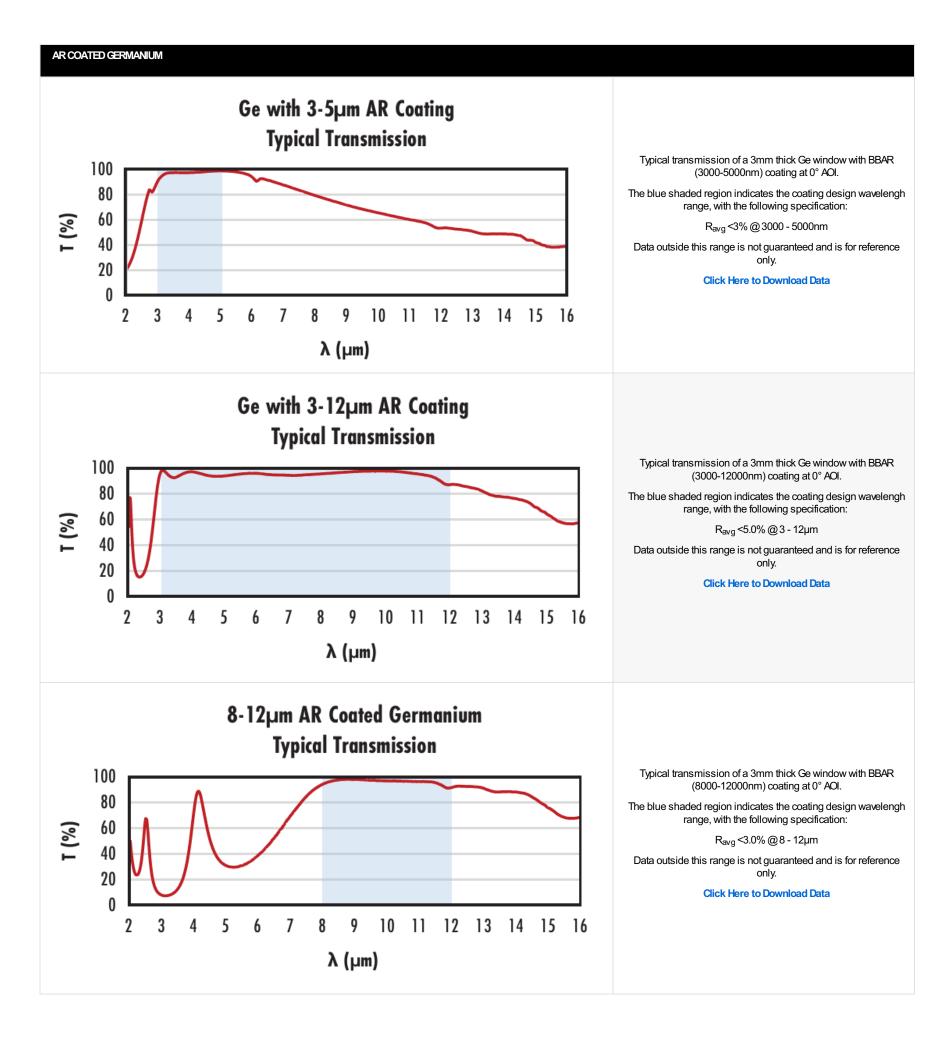
Compliant

- Full Prescription Data 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.

TECHSPEC® Germanium Infrared (IR) Aspheric Lenses provide diffraction-limited focusing performance over a broad spectral range in the Mid and Long Wave infrared regions. Ideal for monochromatic light sources, such as quantum cascade lasers, these lenses offer a high-performance alternative to standard plano-convex lenses. The lenses are available in a 12.5, 25, or 50mm diameter. TECHSPEC® Germanium Infrared (IR) Aspheric Lenses are available uncoated, or with BBAR coating options.

Uncoated germanium has transmission of <50%, so custom anti-reflection (AR) coatings should be considered if specifying an uncoated lens. Each BBAR coated lens offers >95% transmission, making it ideal for integration into a variety of OEM applications. For custom design or coating options, please contact our Sales Department.





## SPECIAL HANDLING

## Germanium Optics Handling and Cleaning Guidelines

Germanium optics require special handling and cleaning procedures. Always wear gloves during handling to prevent contamination, and wash hands afterward. Avoid contact between Germanium dust and the eyes, skin, or clothing. When not in use, store optics sealed and covered at temperatures between 20°C and 25°C. Do not expose them to temperatures exceeding 100°C when in use.

#### **Handling Guidelines**

- Always wear gloves to prevent damage from skin oils.
- If Germanium dust is present, take the following precautions:

- Wear safety glasses to protect eyes.
- Use a dust mask or face mask to avoid inhalation.
- Wear gloves to prevent skin contact.
- Maintain storage temperature between 20°C and 25°C with humidity below 30%.
- Wrap Germanium optics in a lens cloth or pouch and seal in a container when not in use.
- Germanium is brittle and heavy—always place it on soft surfaces and avoid dropping it.

#### **Approved Cleaning Solvents**

- Ethanol
- Isopropyl Alcohol
- Methanol
- Reagent-Grade Acetone
- Liquid COI
- Shop Now

COMPATIBLE MOUNTS