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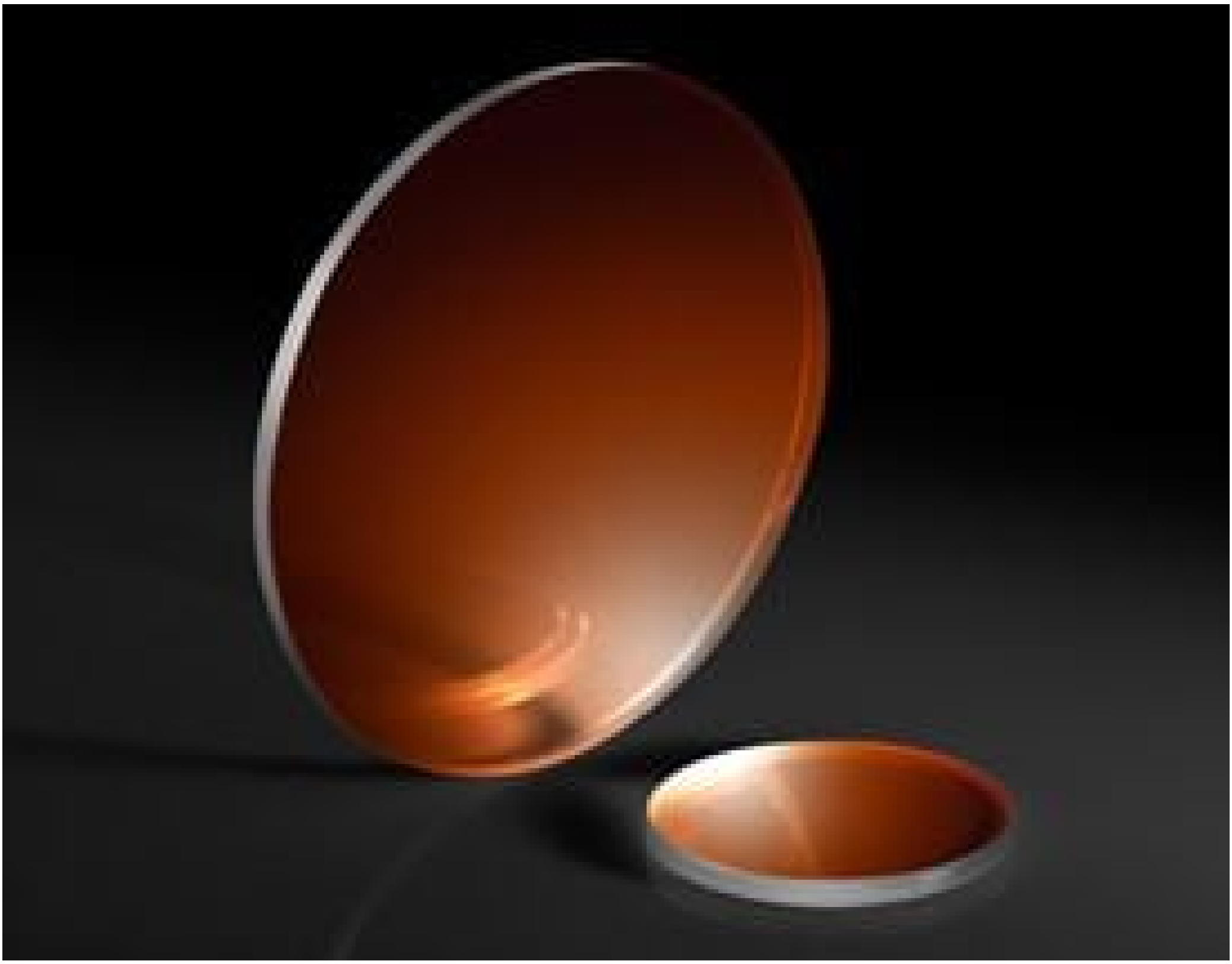
TECHSPEC® 5mm Dia., 1mm Thick, Uncoated, Lithium Fluoride (LiF) Window



Lithium Fluoride (LiF) Windows

Stock **#19-724** **5 In Stock**

- 1 + **£108.80**

ADD TO CART

Volume Pricing	
Qty 1-10	**£108.80** each
Qty 11-25	**£97.60** each
Qty 26-49	**£92.80** each
Need More?	Request Quote

Prices shown are exclusive of VAT/local taxes

Product Downloads

General

Type:

Protective Window

Physical & Mechanical Properties

Clear Aperture CA (mm):

4.50

Diameter (mm):

5.00 +0.00/-0.10

Thickness (mm):
1.00 ±0.10

Parallelism (arcmin):
<3

Bevel:
Protective as needed

Clear Aperture (%):
90

Edges:
Fine Ground

Poisson's Ratio:
0.33

Young's Modulus (GPa):
64.97

Knoop Hardness (kg/mm^2):
102.00

Optical Properties

Coating:
Uncoated

Substrate:
Lithium Fluoride (LiF)

Index of Refraction (n_d):
1.392

Surface Quality:
60-40

Abbe Number (v_d):
97.29

Axis Orientation:
Random

Wavelength Range (nm):
150 - 6000

Surface Flatness (P-V):
λ/2 @ 632.8nm

Material Properties

Density (g/cm^3):
2.64

Coefficient of Thermal Expansion CTE (10^{-6}/°C):
37

Regulatory Compliance

Certificate of Conformance:
View

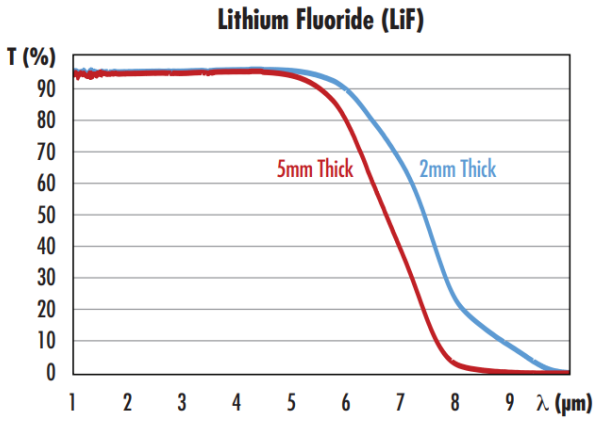
Product Details

- High Transmission from 150nm - 6µm
- Excellent Vacuum UV (VUV) Transmission
- Low Index of Refraction

Lithium Fluoride (LiF) Windows provide high, flat transmission from 150nm to 6µm. Lithium fluoride has excellent transmission in the vacuum ultraviolet (VUV) wavelength range of 150 - 200nm. Lithium fluoride also has a low index of refraction, allowing these windows to be used without an anti-reflection (AR) coating. Lithium Fluoride (LiF) Windows are ideal for use as UV transmission windows in spectroscopy applications, as a diffracting element in X-ray spectrometry, or as infrared windows for thermal imaging applications.

Note: Lithium fluoride is sensitive to thermal shock and is attacked by atmospheric moisture at temperatures above 400°C.

Technical Information



Special Handling

These optics require special handling to avoid damage and ensure long-term performance. Proper handling, cleaning, and storage are essential to maintain optical quality. Explore our **Optics Cleaning Resources** for step-by-step guides and best practices. For personalized assistance, **Email us** or **Chat** with our technical support team.

Component Handling Tools

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