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25.4mm Dia., 4mm Thick, 30' Wedge, ISP Optics Barium Fluoride (BaF_2) Wedged Window | BF-WW-25-4

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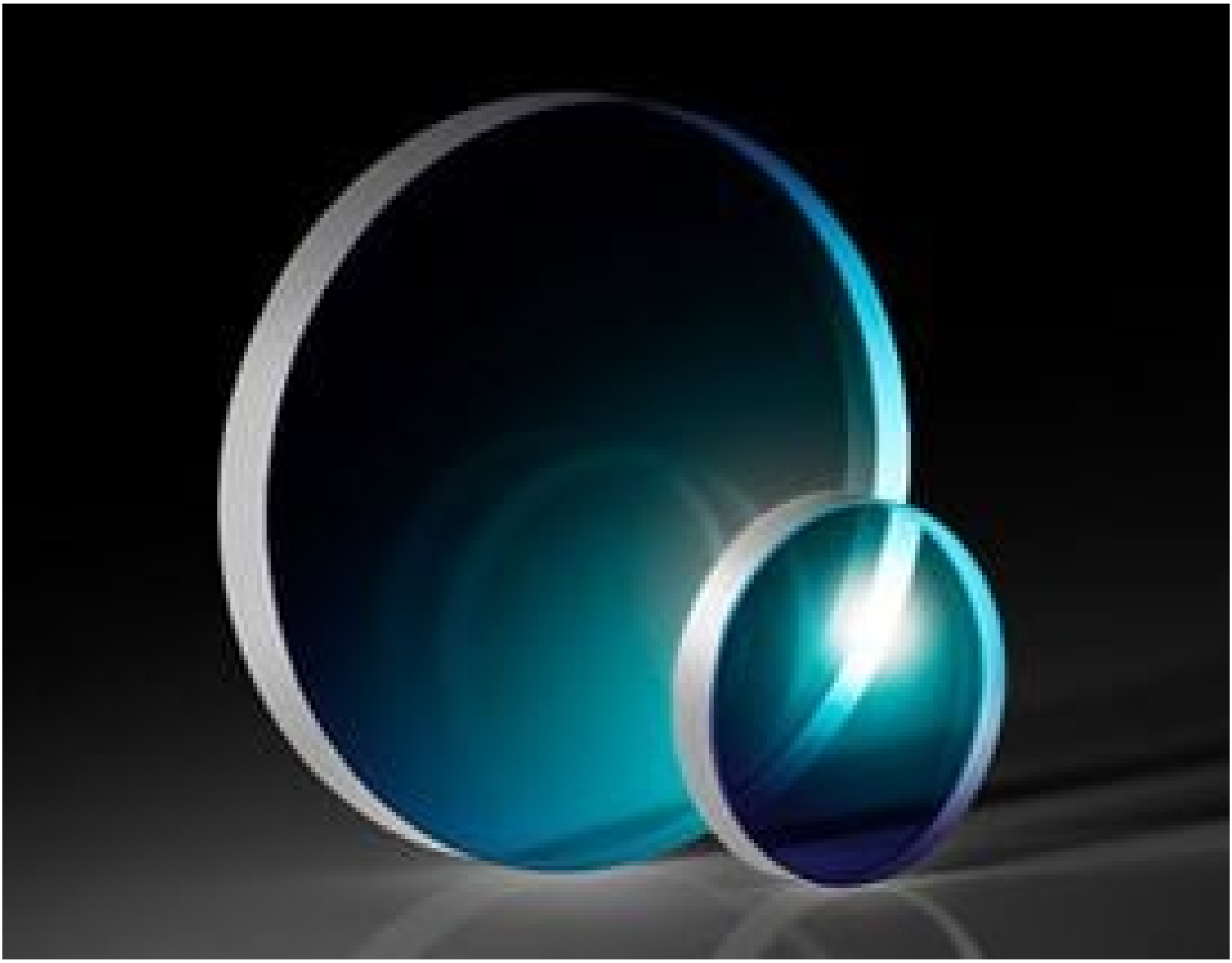

Barium Fluoride (BaF_2) Wedged Windows

Stock **#16-806** CLEARANCE **6 In Stock**

- 1 + **A$622**.40

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Volume Pricing	
Qty 1+	**A$622.40** each
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General

Model Number:
BF-WW-25-4

Type:
Protective Window

Physical & Mechanical Properties

Clear Aperture CA (mm):	
21.59	
Diameter (mm):	
25.40 +0.00/-0.13	
Thickness (mm):	
4.00 ±0.13	
Bevel:	
Protective as needed	
Clear Aperture (%):	
85	
Edges:	
Fine Ground	
Poisson's Ratio:	
0.34	
Young's Modulus (GPa):	
53	
Knoop Hardness (kg/mm^2):	
82.00	
Wedge Angle (arcmin):	
30±15 arcmin	

Optical Properties

Coating:	
Uncoated	
Substrate:	
Barium Fluoride (BaF_2)	
Index of Refraction (n_d):	
1.478 @ 0.5µm 1.451 @ 5µm 1.401 @ 10µm	
Surface Quality:	
60-40	
Abbe Number (v_d):	
81.78	
Wavelength Range (nm):	
200 - 12000	
Surface Flatness (P-V):	
2λ @ 633nm	

Material Properties

Density (g/cm^3):	
4.89	
Coefficient of Thermal Expansion CTE (10^{-6}/°C):	
18.1	

Regulatory Compliance

RoHS 2015:	
Compliant	
Certificate of Conformance:	
View	
Reach 240:	
Compliant	

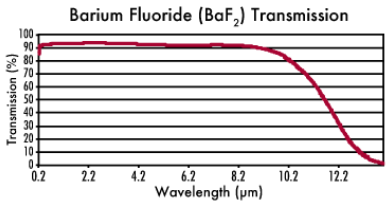
Product Details

- 30 Arcmin Wedge
- Excellent Transmission from 200nm - 12µm
- Resistant to High-Energy Radiation
- **Precision Flat Barium Fluoride (BaF_2) Windows** Also Available

ISP Optics Barium Fluoride (BaF_2) Wedged Windows feature a 30 arcmin wedge to eliminate etalon effects, improving readout in detection and spectroscopy applications. With a low index of refraction of 1.48, these windows provide high transmission from 200nm to 12µm without the need of an anti-reflection (AR) coating. Barium fluoride windows can be used up to 800°C in a dry environment, but prolonged exposure to moisture can degrade transmission in the vacuum ultraviolet range. ISP Optics Barium Fluoride (BaF_2) Wedged Windows are ideal for infrared spectroscopy, thermal imaging, and general UV-IR detection applications. Barium fluoride is also a fast scintillator and can be used for the detection X-rays, gamma rays, or other high energy particles.

Note: These optical windows are very sensitive to thermal shock.

Technical Information


Barium Fluoride (BaF_2) Transmission
Transmission (%)
100
90
80
70
60
50
40
30
20
10
0
0.2
2.2
4.2
6.2
8.2
10.2
12.2
Wavelength (µm)

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