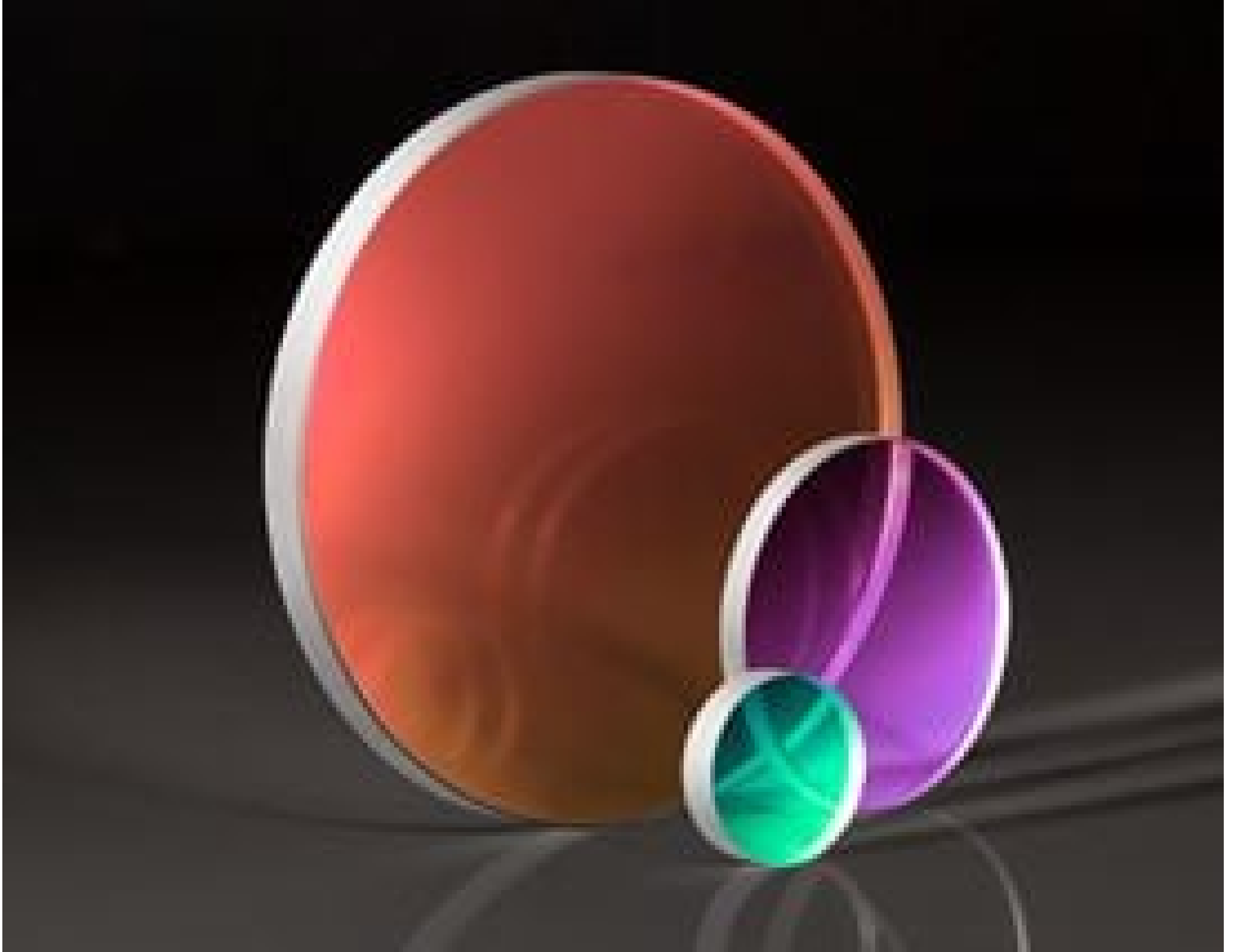


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12.7mm Dia., 2mm Thick, Uncoated, ISP Optics Quartz Window | Q-W-12-2

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Stock #24-595 CLEARANCE **3 In Stock**

€102⁹⁵

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Product Downloads

General

Q-W-12-2 Model Number:

Protective Window Type:

Glass Type of Window:

Physical & Mechanical Properties

Clear Aperture CA (mm):

10.79	
12.70 +0.00/-0.13	Diameter (mm):
2.00 ±0.13	Thickness (mm):
<3	Parallelism (arcmin):
Protective as needed	Bevel:
85	Clear Aperture (%):
Fine Ground	Edges:
0.16	Poisson's Ratio:
73	Young's Modulus (GPa):
522.00	Knoop Hardness (kg/mm²):

Optical Properties

Uncoated	Coating:
Quartz	Substrate: <input type="checkbox"/>
1.458	Index of Refraction (n_d):
40-20	Surface Quality:
67.8	Abbe Number (v_d):
190 - 3500	Wavelength Range (nm):
1λ per inch @ 633nm	Surface Flatness (P-V):

Material Properties

2.20	Density (g/cm³):
0.52 (+5 to +35°C) 0.57 (0 to +200°C) 0.48 (-100 to +200°C)	Coefficient of Thermal Expansion CTE (10⁻⁶/°C):

Regulatory Compliance

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

Product Details

- High Transmission from 190 - 3500nm
- High Chemical Resistance
- Low Coefficient of Thermal Expansion

ISP Optics Quartz Windows feature crystalline quartz (SiO₂) substrates, providing high transmission from the UV to the MWIR. Unlike fused silica, crystalline quartz does not have hydroxide ion impurities, allowing for its use between 1.4 - 2.7μm with no dips in transmission. The material also has high chemical resistance, a low coefficient of thermal expansion, and relatively high hardness, making these windows advantageous for use in harsh environments or those with fluctuating temperatures. ISP Optics Quartz Windows are ideal for use in UV, visible, or infrared applications as protective windows to protect sensors, lasers, or other electro-optical components.