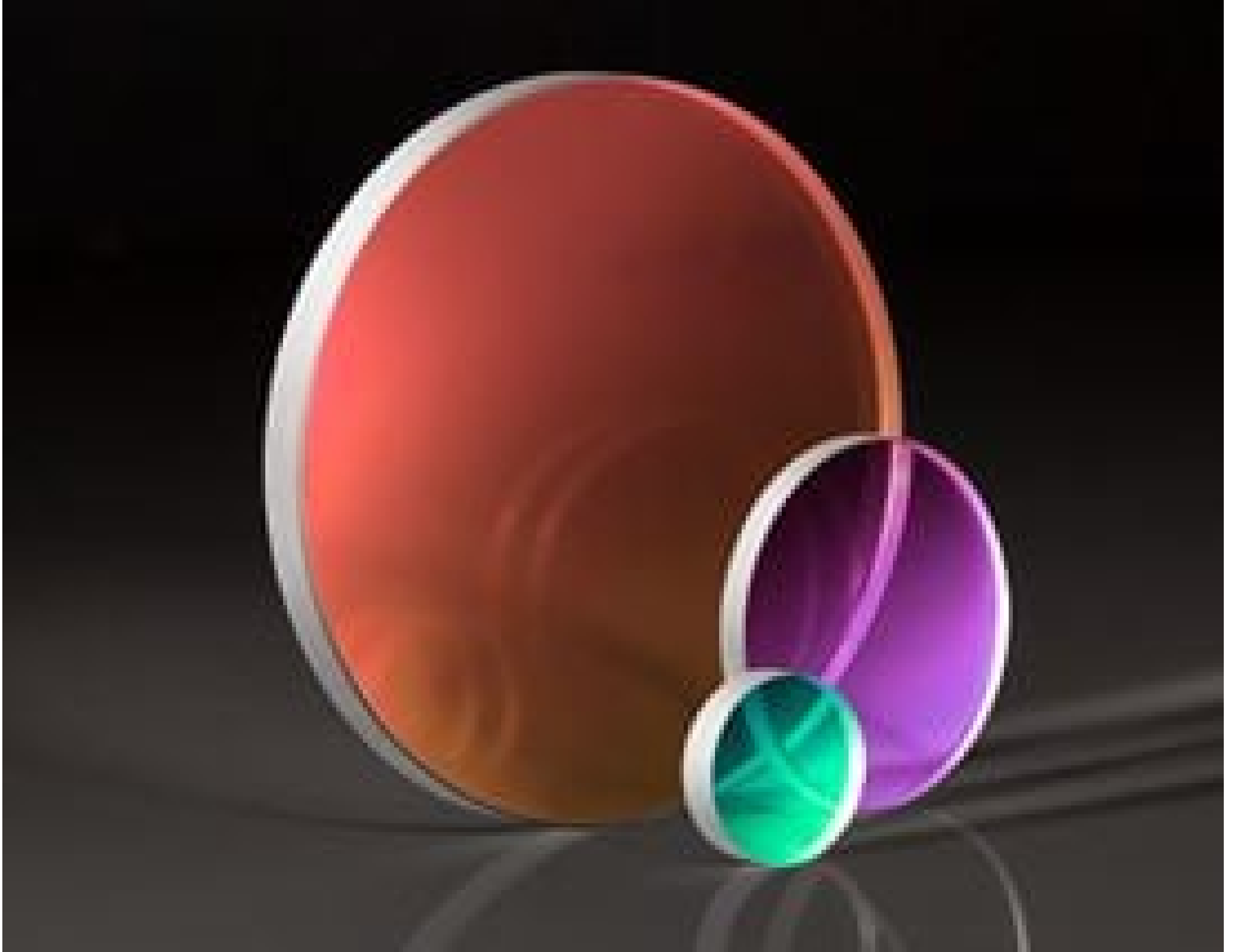


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## 12.7mm Dia., 2mm Thick, Uncoated, ISP Optics Quartz Window | Q-W-12-2

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

⊖ 1 ⊕ **SS\$144<sup>13</sup>**

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#### General

Q-W-12-2 **Model Number:**

Protective Window **Type:**

Glass **Type of Window:**

#### Physical & Mechanical Properties

10.79 **Clear Aperture CA (mm):**

12.70 +0.00/-0.13	<b>Diameter (mm):</b>
2.00 ±0.13	<b>Thickness (mm):</b>
<3	<b>Parallelism (arcmin):</b>
Protective as needed	<b>Bevel:</b>
85	<b>Clear Aperture (%):</b>
Fine Ground	<b>Edges:</b>
0.16	<b>Poisson's Ratio:</b>
73	<b>Young's Modulus (GPa):</b>
522.00	<b>Knoop Hardness (kg/mm<sup>2</sup>):</b>

## Optical Properties

Uncoated	<b>Coating:</b>
Quartz	<b>Substrate:</b> □
1.458	<b>Index of Refraction (n<sub>d</sub>):</b>
40-20	<b>Surface Quality:</b>
67.8	<b>Abbe Number (v<sub>d</sub>):</b>
190 - 3500	<b>Wavelength Range (nm):</b>
1λ per inch @ 633nm	<b>Surface Flatness (P-V):</b>

## Material Properties

2.20	<b>Density (g/cm<sup>3</sup>):</b>
0.52 (+5 to +35°C) 0.57 (0 to +200°C) 0.48 (-100 to +200°C)	<b>Coefficient of Thermal Expansion CTE (10<sup>-6</sup>/°C):</b>

## Regulatory Compliance

<a href="#">Compliant</a>	<b>RoHS 2015:</b>
<a href="#">View</a>	<b>Certificate of Conformance:</b>
<a href="#">Compliant</a>	<b>Reach 240:</b>

## Product Details

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

ISP Optics Quartz Windows feature crystalline quartz (SiO<sub>2</sub>) substrates, providing high transmission from the UV to the MMR. 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.