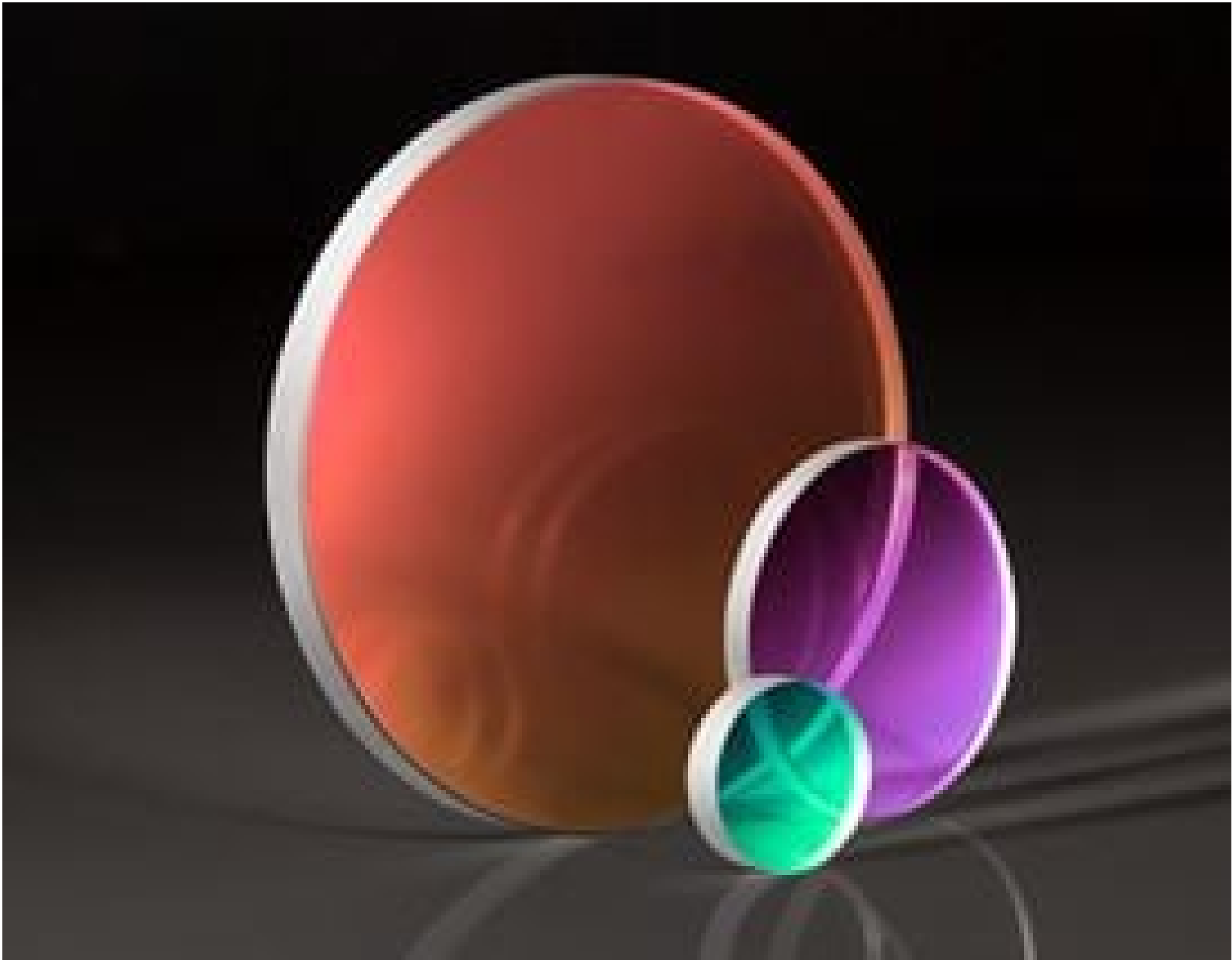


12.7mm Dia., 1mm Thick, Uncoated, ISP Optics Quartz Window | Q-W-12-1

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SPECIFICATIONS

General

Protective Window	Type:
Q-W-12-1	Model Number:

Physical & Mechanical Properties

Protective as needed	Bevel:
85	Clear Aperture (%):
10.79	Clear Aperture CA (mm):
12.70 +0.00/-0.13	Diameter (mm):
1.00 ±0.13	Thickness (mm):
Fine Ground	Edges:
522.00	Knoop Hardness (kg/mm²):
<3	Parallelism (arcmin):
0.16	Poisson's Ratio:
73	Young's Modulus (GPa):

Optical Properties

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

Material Properties

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):
2.20	Density (g/cm³):

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 QuartzWndows feature crystalline quartz (SiO₂) 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 QuartzWndows are ideal for use in UV, visible, or infrared applications as protective windows to protect sensors, lasers, or other electro-optical components.