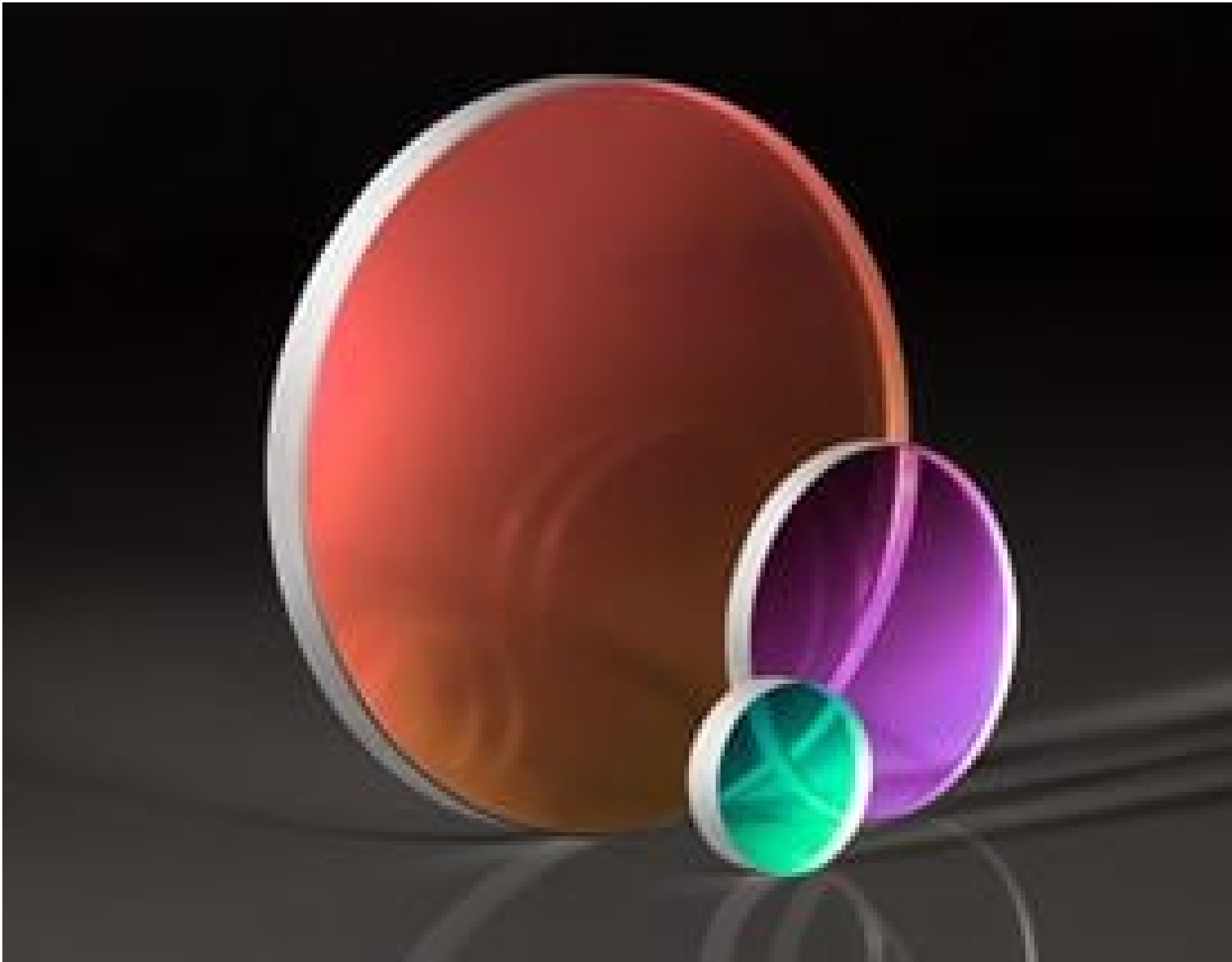


12.7mm Dia., 2mm Thick, Uncoated, ISP Optics Quartz Window | Q-W-12-2

See More by [ISP Optics](#)



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

-

1

+

£82³⁶

ADD TO CART

Volume Pricing	
Qty 1+	£82.36 each
Need More?	Request Quote

Prices shown are exclusive of VAT/local taxes

Product Downloads

SPECIFICATIONS

General

Protective Window

Type:

Q-W-12-2

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):
2.00 ±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	
Coefficient of Thermal Expansion CTE (10 ⁻⁶ /°C): 0.52 (+5 to +35°C) 0.57 (0 to +200°C) 0.48 (-100 to +200°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 Quartz Windows 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 Quartz Windows are ideal for use in UV, visible, or infrared applications as protective windows to protect sensors, lasers, or other electro-optical components.