



6 inch Vacuum Viewport Window

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This specification is for anti-reflection coated, laser-quality, plano-plano windows. They are to be used as viewports on UHV chambers.

Requirements

Physical Configuration

Diameter	6.00" +/- 0.01"
Thickness	0.75" +/- 0.01"
Wedge	< 5 arc minutes
Bevel	45 deg. bevel on both edges, width approx. 0.03" or as appropriate to prevent chipping
Clear Aperture	> 5.20"
Markings	Part and serial number, as defined below, shall be marked on the barrel

Substrate Material

Fused silica, Corning 7980 or equivalent, grade 1B or better

Part and Serial Number

The Part/Serial number shall be of the format:
E1100267-v1 TYPE YY , where
TYPE is I or II, depending on the coating type – see below
YY is incremental for each optic type, starting at 01

Surface Quality: Surfaces 1 and 2, within the clear aperture

Laser grade polish: 10-5 scratch-dig surface quality

Transmitted wavefront error, within the clear aperture

λ/10 or less, at 633 nm

