Window Specifications

APPROVALS	DATE	REV	DCN NO.	BY	CHECK	DCC	DATE
AUTHOR: H. Armandula	**12-10-04**						
CHECKED:							
APPROVED: P. Fritschel							
DCC RELEASE							

1 Material

BK7 – Grade A – Fine annealed optical glass

2 Dimensions

2” dia. +0/- .010"
Thickness: 1/2" ± .005"
Chamfers: 0.002" ± 0.001” @ 45° ±15°

3 Surface Roughness

Side 1

Superpolished - < 1 Angstrom over central 80 % of diameter with 10-5 scratch-dig; best effort for 0/0
20-10 scratch-dig outside central 80 % of diameter

Side 2

< 5 Angstrom over central 80 % of diameter

4 Surface Figure

Side 1

Flat ≤ λ/10 at 632.8 over central 80% clear aperture

Side 2

Flat ≤ λ/10 at 632.8 over central 80% clear aperture

5 Wedge

30 arc minutes ± 5 arc minutes

6 Coating

Window – 1 Coated for “P” Polarization
Window – 2 Coated for “S” Polarization

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Wavelength: 1064 nm
Angle of incidence: 45º

Coated 1 side - AR – R < 500 ppm

Coating vendor to provide:

1. One 1" coated witness sample from each coating run.
2. Two spectrophotometer graphs of the AR coating; one covering the spectrum from 530nm to 1200nm; the other, with increased sensitivity, to show wavelengths from 900 nm to 1100 nm.