



COMPONENT SPECIFICATION

TITLE **COS Steering Mirror-1, -2, -3 High Reflectance Coating**

APPROVALS:	DATE	REV	DCN NO	BY	CHK	DCC	DATE
DRAWN: Michael Smith, Jonathan Kern	5/4/98			n/a	n/a	n/a	n/a
CHECKED:							
APPROVED:							
DCC RELEASE:							

Requirements

Physical Configuration

Diameter: 2.00" +/- .01" or 50 mm +/- .25 mm
 Material: Quartz
 Thickness: ~.37"/.39" +/- .01"
 Chamfers: .02"/.03" x 45 deg. +/- 15 deg.
 Clear Aperture: Central 85%
 Flatness: S1_1/10 wave @633nm over clear aperture
 Wedge: <5 arc min.
 Surface Roughness <0.8 Å (Superpolish)

High Reflectance Coating Mirror-1, 0 deg, p

Polarization: p
 Incidence Angle: 0 deg.
 Reflectivity: >0.999 @ 1060 nm
 Durability: Mil-C-675C

High Reflectance Coating Mirror-2, 45 deg, p

Polarization: p
 Incidence Angle: 45 deg.
 Reflectivity: >0.999 @ 1060 nm
 Durability: Mil-C-675C

High Reflectance Coating Mirror-3, 45 deg, s

Polarization: s
 Incidence Angle: 45 deg.
 Reflectivity: >0.999 @ 1060 nm
 Durability: Mil-C-675C



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SHEET 2 OF 2

CONTINUATION SHEET

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Note:

Coating manufacturer to provide spectrophotometer graph of reflectance of HR coating within wavelength range 600 to 1070 nm.

