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| **APPROVALS** | **DATE** | **REV** | **DCN NO.**  | **BY**  | **CHECK**  | **DCC** | **DATE** |
| **AUTHOR: L. BARSOTTI** | **04-10-2010** |  |  |  |  |  |  |
| **CHECKED:** |  |  |  |  |  |  |  |
| **APPROVED:**  |  |  |  |  |  |  |  |
| **DCC RELEASE** |  |  |  |  |  |  |  |

# Description

0.5” flat/flat fused silica mirrors used as turning mirrors for PZT actuators

# Material

Corning HPFS 7980 (high purity fused silica, UV grade)

Grade 0A (Low inclusion class: <0.3 mm² cross section, 0.1 mm max. size;

Homogeneity < 1ppm)

# Dimensions

 **FLAT-FLAT**

**Diameter**: 12.7mm +0/-0.2mm

 **Thickness** (center): 3.175mm ± 0.050mm

# Surface Roughness

**Side 1**

**Super-polished**

< 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

# Surface Figure

**Side 1**

Flat < λ/10 at 632.8 over central 80%

**Side 2**

Flat < λ/4 at 632.8 over central 80%

# Coating

Wavelength: 1064nm and 532nm

 AOI: **6 degrees (shared coating run, see E1000023-v4 O3 and O4)**

 **Side 1**

 HR@1064 > 99.99% (best effort)

 HR@532 > 99.9%

 **Side 2**

 AR@1064 < 0.1%

 AR@532 < 0.2%