

**LASER DAMAGE THRESHOLD SPECIFICATION SHEET
AND CERTIFICATE OF COMPLIANCE**

DATE: June 20, 2006

CUSTOMER: Optical Surface Technologies

P.O. NUMBER: 172084

ADDRESS: 2801 Broadbent Parkway NE Suite E
Albuquerque, NM 87107

SERIAL NUMBER: 98052-01

ATTN: Anthony Jaramillo

RUN NUMBER: N/A

TEST TYPE: Laser Damage Threshold

QUANTITY: 1

TEST LOG NUMBER: 19158

SUBSTRATE MATERIAL: Not specified

SAMPLE SIZE: 1"

TEST PREP: None

COATING TYPE: Not specified

INCIDENCE ANGLE: 0°

TEST WAVELENGTH: 1064 nm

PRF: 20 Hz

POLARIZATION: Linear

TEST BEAM PROFILE: TEM₀₀

PULSEWIDTH (FWHM): 20 ns

AXIAL MODES: Multiple

SPOT DIAMETER (1/e²): 503 μm

NUMBER OF SITES: 110

TEST METHOD: Laser Damage Frequency

SHOTS/SITE: 200

DAMAGE DEFINITION: Plasma, increased He-Ne scatter. Visible damage as observed with 100x Nomarski brightfield microscope.

COMMENTS: Laser damage threshold calculated at 20.13 J/cm², peak fluence. Part irradiated at 20.00 J/cm² with no damage in 10 sites. See data on page 2.

Spica Technologies certifies that this sample has been exposed to the conditions described above. All test and calibration data are maintained on file. All instrument calibration is traceable to NIST.

Test conducted by

A handwritten signature in black ink, appearing to be "W. J. Jaramillo", is written over a horizontal line.