

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

DATE: February 9, 2016

CUSTOMER: Perkins Precision Developments, LLC

ADDRESS: 4110 North Valley Drive
Longmont, CO 80504

ATTN: Jay Perkins

TEST TYPE: Laser Damage Threshold

TEST LOG NUMBER: 52700

SAMPLE SIZE: PBS Cube

COATING TYPE: PBS

TEST WAVELENGTH: 1064 nm

POLARIZATION: Linear "p"

PULSEWIDTH (FWHM): 10 ns

SPOT DIAMETER ($1/e^2$): 441 μ m

TEST METHOD: Least Fluence Failure

P.O. NUMBER: 16-1505

PART ID: 14-1398

RUN NUMBER: n/a

QUANTITY: 1

SUBSTRATE MATERIAL: Fused Silica

TEST PREP: Methanol Drag

INCIDENCE ANGLE: 45°

PRF: 20 Hz

TEST BEAM PROFILE: TEM₀₀

AXIAL MODES: Multiple

NUMBER OF SITES: 120

EXPOSURE DURATION: 200 shots/site

DAMAGE DEFINITION: Plasma, increased He-Ne scatter. Visible damage as observed with 150x Nomarski brightfield microscope.

COMMENTS: Laser damage threshold measured as 27.00 J/cm², peak fluence. Part irradiated at 27.00 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 

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