

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

DATE: April 29, 2015

CUSTOMER: Perkins Precision Developments, LLC

ADDRESS: 4110 North Valley Drive
Longmont, CO 80504

ATTN: Jay Perkins

TEST TYPE: Laser Damage Threshold

TEST LOG NUMBER: 50384

SAMPLE SIZE: 1"

COATING TYPE: AR

TEST WAVELENGTH: 1064 nm

POLARIZATION: Linear

PULSEWIDTH (FWHM): 10 ns

SPOT DIAMETER ($1/e^2$): 443 μm

TEST METHOD: Least Fluence Failure

P.O. NUMBER: 15-1259

PART NUMBER: n/a

SERIAL NUMBER: 15-1541

QUANTITY: 1

SUBSTRATE MATERIAL: Fused Silica

TEST PREP: Methanol Drag

INCIDENCE ANGLE: 0°

PRF: 20 Hz

TEST BEAM PROFILE: TEM₀₀

AXIAL MODES: Multiple

NUMBER OF SITES: 80

SHOT/SITE: 200

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

COMMENTS: Laser damage threshold measured as 63.00 J/cm², peak fluence. Part irradiated at 63.00 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 "J. Perkins", written over a horizontal line.