

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

DATE: October 2, 2012

CUSTOMER: IOS Optics

ADDRESS: 3150 Molinaro Street
Santa Clara, CA 95054

ATTN: Gener Gatmaitan

TEST TYPE: Laser Damage Threshold

TEST LOG NUMBER: 42273

SAMPLE SIZE: ~

COATING TYPE: not specified

TEST WAVELENGTH: 1064 nm

POLARIZATION: Random

PULSEWIDTH (FWHM): 1 ns

SPOT DIAMETER ($1/e^2$): 500 μ m

TEST METHOD: Least Fluence Failure

P.O. Number: Q2158

PART NUMBER: 105-9023

LOT NUMBER: N/A

QUANTITY: 1

SUBSTRATE MATERIAL: not specified

TEST PREP: Methanol drag

INCIDENCE ANGLE: 40°

PRF: 50 Hz

TEST BEAM PROFILE: TEM₀₀

AXIAL MODES: Multiple

NUMBER OF SITES: 45

SHOT/SITE: 300

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

COMMENTS: Laser damage threshold measured as 11.00 J/cm², peak fluence. Part irradiated at 11.00 J/cm² with no damage in 10 sites. See data on page 2. Sample tested at 3 ns, irradiance scaled to 1 ns using "root τ " method.

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 "L. Gatmaitan", is written over a horizontal line.