

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

DATE: August 1, 2013	P.O. NUMBER: 37998
CUSTOMER: Optimax Systems, Inc.	PART ID: A-0236C
ADDRESS: 6367 Dean Parkway Ontario, NY 14519	SERIAL NUMBER: 1010
ATTN: Pete Kupinski	JOB NUMBER: MRP12877
TEST TYPE: Laser Damage Threshold	QUANTITY: 1
TEST LOG NUMBER: 45043	SUBSTRATE MATERIAL: Fused Silica
SAMPLE SIZE: ~	TEST PREP: Acetone drag
COATING TYPE: Not Specified	INCIDENCE ANGLE: 0°
TEST WAVELENGTH: 1064 nm	PRF: 5 Hz
POLARIZATION: Linear	TEST BEAM PROFILE: TEM <sub>00</sub>
PULSEWIDTH (FWHM): 30 ns	AXIAL MODES: Multiple
SPOT DIAMETER (1/e <sup>2</sup> ): 305 μm	NUMBER OF SITES: 100
TEST METHOD: Least Fluence Failure	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 120.00 J/cm<sup>2</sup>, peak fluence. Part irradiated at 120.00 J/cm<sup>2</sup> 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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