



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

DATE: June 16, 2017

CUSTOMER: Andover Corporation

P.O. NUMBER: PD-28871

ADDRESS: 4 Commercial Drive
Salem, NH 03079

PART ID: RD-1083

TEST TYPE: Laser Damage Threshold

QUANTITY: 1

TEST LOG NUMBER: 56819

SUBSTRATE MATERIAL: Quartz

SAMPLE SIZE: ~

TEST PREP: N₂ gas blow

COATING TYPE: AR

INCIDENCE ANGLE: 0°

TEST WAVELENGTH: 1064 nm

PRF: 10 Hz

POLARIZATION: Linear

TEST BEAM PROFILE: TEM₀₀

PULSEWIDTH (FWHM): 10 ns

AXIAL MODES: Multiple

SPOT DIAMETER (1/e²): 490 um

NUMBER OF SITES: 120

TEST METHOD: Least Fluence Failure

EXPOSURE DURATION: 200 shots/site

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

COMMENTS: Laser damage threshold measured as 85.00 J/cm², peak fluence. Part irradiated at 85.00 J/cm² with no damage in 10 sites.

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. Spica", is written over a horizontal line.

High Laser Damage Threshold Coatings

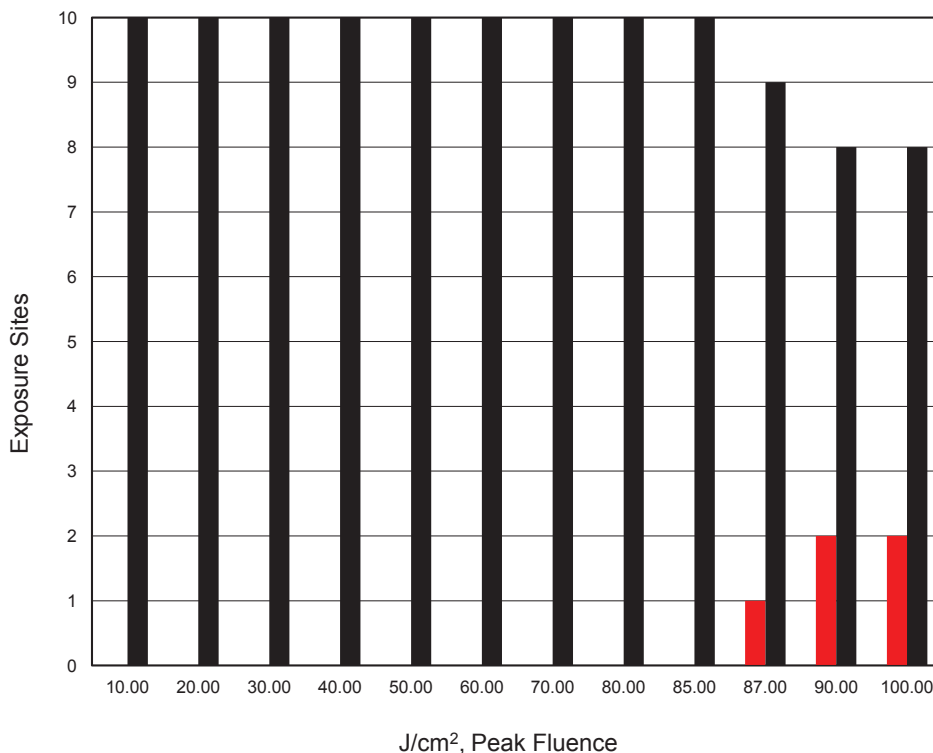
Testing Provided By: **Spica**
Technologies Inc.

High Damage Threshold A/R Coating

Withstands 85.00 J/cm²
@ 1064nm – 10ns pulses

Low Temperature Process
Suited for: Optical Assemblies,
Fiber Optics, Imaging Beamsplitters

Exposure Histogram 56819



Test Number	56819
Run Number	RD-1082
Threshold	85.00 J/cm ²

■ Damage ■ No Damage

