

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

DATE: April 7, 2026

ATTN: Kipp Bauchert

CUSTOMER: Perkins Precision Development, LLC

PO NUMBER: 26-5052

ADDRESS: 4110 North Valley Drive
Longmont, CO 80504

SERIAL NUMBER: N/A

TEST TYPE: Laser Damage Threshold

LOT NUMBER: N/A

TEST LOG NUMBER: 82913

QUANTITY: 1

SAMPLE SIZE: ~

SUBSTRATE MATERIAL: Fused Silica

COATING TYPE: AR

TEST PREP: PROC.CLEAN UV-VIS-IR Rev.1

TEST WAVELENGTH: 1064 nm

INCIDENCE ANGLE: 0°

POLARIZATION: Unpolarized

PRF: 20 Hz

PULSE WIDTH (FWHM): 10 ns

TEST BEAM PROFILE: TEM₀₀

SPOT DIAMETER (1/e²): 402 μm

AXIAL MODES: Multiple

TEST METHOD: Least Fluence Failure

NUMBER OF SITES: 100

PART NUMBER: P26-2398-1

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 66.0 J/cm², peak fluence. Part irradiated at 66.0 J/cm² with no damage in 10 sites. See data on page 2.

Spica Technologies, Inc. certifies that this item 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 reviewed by:

A handwritten signature in black ink, appearing to read "Michael D. Thomas", written over a horizontal line.

Michael D. Thomas
18 Clinton drive, #3
Hollis, NH 03049
www.spicatech.com
603-882-8233

Test Number	82913
Run Number	N/A
Threshold	66.00 J/cm ²

fluence	Out of	Damage	No Damage
10.00	10	0	10
20.00	10	0	10
30.00	10	0	10
40.00	10	0	10
50.00	10	0	10
60.00	10	0	10
64.00	10	0	10
66.00	10	0	10
68.00	10	1	9
70.00	10	4	6

Exposure Histogram 82913

