

# HIGH POWER POLARIZATION BEAMSPLITTER

## High Power Damage Threshold Report from Quantel



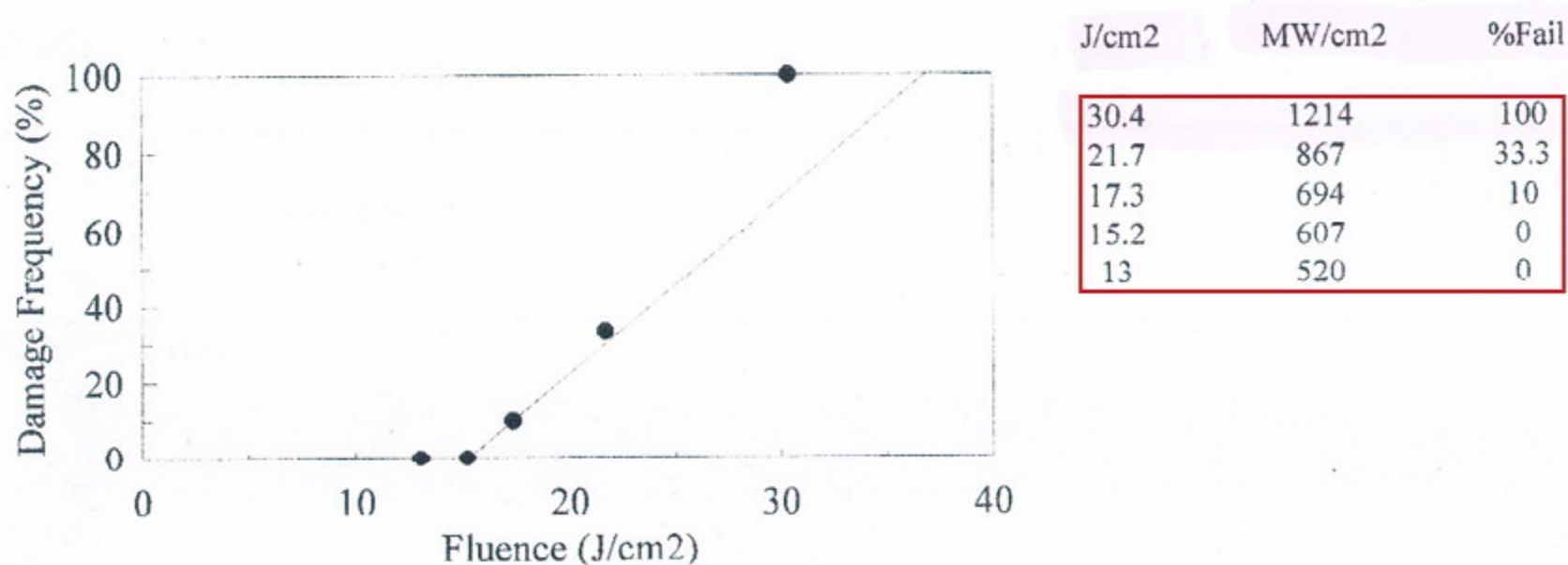
### LASER DAMAGE THRESHOLD

Customer: [REDACTED] Certificate No.: 13866 #1  
Purchase Order Number: P338 Issued: Dec. 1, 2008

Substrate Material: BK-7 Glass Coating Type: B/S@1064 nm  
Part No.: PBS206-HP Lot No.: 136  
PBS cube

Special Requirements: Per P.O.

Wavelength (nm): 1064 Spot Diam. (FW/e2, mm): .5  
Repetition Freq. (Hz): 20 Incidence Angle (deg.): Normal  
Pulse Width (FWHM, ns): 20 Polarization State: Circular  
Axial Modes: Multiple Transverse Modes: TEM<sub>00</sub>  
No. Sites Tested: 26 No. Shots/Site: 200  
Damage Definition: Permanent surface change Inspection Method: Nomarski/Darkfield 150X  
Preparation: N2 Dustoff



Test Results: Damage Threshold: **15.2 J/cm<sup>2</sup>** or **607 MW/cm<sup>2</sup>**  
Damage Type: Propagating pit(s) on the hypotenuse

Notes:

"Big Sky Laser Technologies, Inc., certifies that the Laser Damage Threshold of this sample was tested as shown hereon. Fluence measurement precision was plus or minus 10%, traceable to NIST. The test method was substantially in agreement with ISO 11254. Specific calibration data are maintained in this office and are available on request. We certify that this test report conforms to all applicable provisions of the purchase order."

  
Jeff Runkel