

The Jewel DPSS Lasers

The Jewel Laser Diode Pumped Q-switch Nd: YAG laser

The Jewel is a rugged, monolithic designed, air cooled, diode pumped laser which can supply 10mJ energy, with rep rates up to 20Hz. This reliable, light-weight, and compact laser features easy to swap components making the Jewel ideal for commercial and OEM applications.

FEATURES:

- Compact, Monolithic Resonator
- Efficient, Reliable Diode Pumped
- Excellent Shot to Shot Stability
- Integrated Electronics and Thermal Management
- High Efficiency Pumphead, 20Hz Less Than 5W
- USB Standard With Optional Bluetooth



Quantum Composers, Inc.
P.O. Box 4248
Bozeman, MT 59772

Phone (406) 582-0227
Fax (406) 582-0237
Toll Free (800) 510-6530

www.quantumcomposers.com
sales@quantumcomposers.com

ADDITIONAL INFORMATION

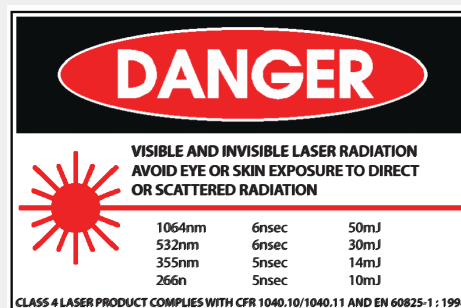
Laser Resonator (w/o electronics):

Size	35mm x 95mm x 25mm
Temperature Range	15/30°C, Conductively cooled

Optical Laser (w/ integrated electronics & thermal management)

Size	82mm x 180mm x 60mm
Operational Temperature Range	15/30°C, Internal thermal management
Storage Temperature Range	10/50°C

Power Requirements	36VDC, 25 to 50
Diode Lifetime	300,000,000 pulses



TECHNICAL SPECIFICATIONS

	Std
Rep Rate (Hz)	1 to 20
Energy per Pulse (mJ)	
1064nm	10
532nm	4
355nm	2
266nm	1
Energy Stability (% RMS)	
1064nm	<2.5
532nm	<3.5
355nm	<5.0
266nm	<5.0
Energy Variance (% (max-min)/(max+min))	
1064nm	<5.0
532nm	<7.0
355nm	<10.0
266nm	<10.0
Pulse Duration (ns)	
1064nm	10±2.0
532nm	9±2.0
355nm	8±2.0
266nm	8±2.0
Timing Jitter (±ns)	<2
Beam Divergence (mrad)	
1064nm	<6
532nm	<5
355nm	<4
266nm	<4
Beam Diameter (mm)	2.0 ± 0.5



Toll Free Phone (800) 510-6530
Fax Phone Line (406) 582-0237

Email sales@quantumcomposers.com
Web www.quantumcomposers.com

V1.7 1/16/24