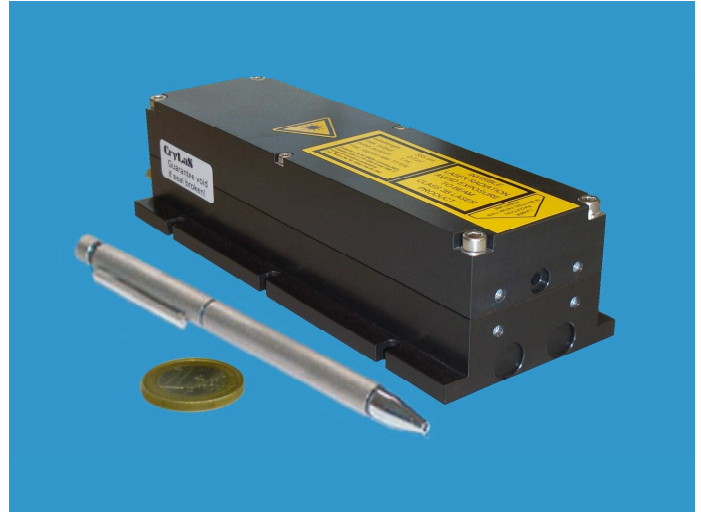


FDSS 532-Q

Diode Pumped Passively Q-Switched Solid State Laser

- 532 nm
- Pulsed (≤ 1.3 ns)
- Up to 25 μ J
- Up to 20 kHz
- External and Internal Trigger Mode
- Free Beam or Fiber Coupling



biology · biomedicine · chemistry · analytics

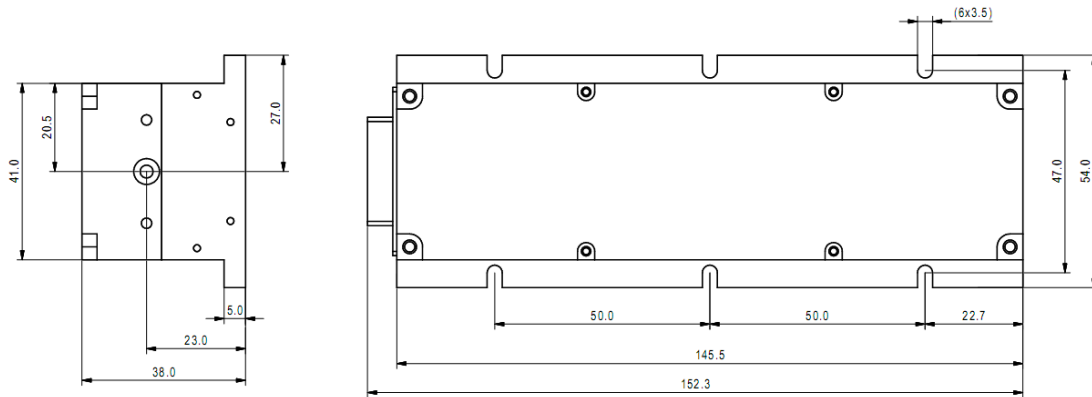
Optical Data		FDSS532-Q1	FDSS532-Q2	FDSS532-Q3
	Wavelength	532 nm		
	Pulse Energy	> 2 μ J @ 15 kHz	> 6 μ J @ 10 kHz	> 20 μ J @ 1 kHz
	Peak Power	> 1.5 kW @ 15 kHz	> 4.5 kW @ 10 kHz	> 15 kW @ 1 kHz
	Max. Pulse Repetition Rate	20 kHz	10 kHz	2.5 kHz
	Pulse Width (FWHM)	≤ 1.3 ns		
	Polarization Ratio	> 100:1 vertical		
	Power Stability (%rms, 6 hours) ¹⁾	< ± 5 %	< ± 3 %	< ± 3 %
	Laser Classification	3B / IIIb		
Optical Output	Spatial Mode	TEM ₀₀		
	Beam Divergence (full angle)	3.5 mrad		
	Beam Diameter at Output Plane	300 \pm 100 μ m	260 \pm 50 μ m	300 \pm 80 μ m
Electrical Data	Power Consumption mean (max.)	15 W (40 W)	17 W (40 W)	20 W (70 W)
	Operating Voltage (OEM)	12 V DC		
	Line Voltage (with AC-DC adapter)	90 ... 240 V AC		
	Marking	CE		
Interfaces	RS 232 , USB			
	External Trigger (TTL, rising edge) 1 Hz ... max. repetition rate			
	Interface for TTL-control and power monitor			
Miscellaneous	Warm-up Time	< 5 min		
	Operating Temperature	18 ... 38 $^{\circ}$ C		
Options	STAND ALONE Version (incl. key-switch, heat-sink, manual shutter)			
	Synchronization Signal Output (rise time < 2 ns)			
	Fiber Coupling for fiber with core diameter > 70 μ m			
	Manual switch to 1064 nm			

¹⁾ after 5 min warm up, temperature variation ± 3 $^{\circ}$ C and < 3 $^{\circ}$ C/hour

Dimensions

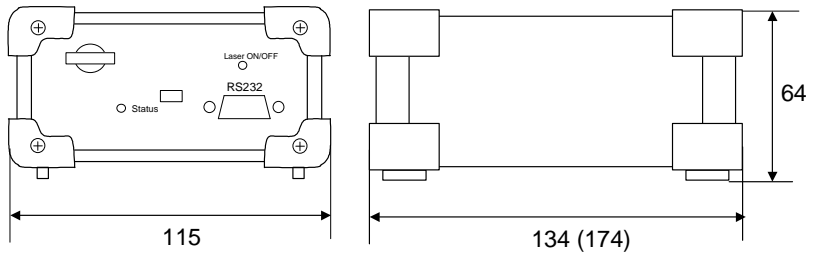
Laser Head:

152.3 x 54 x 38 mm



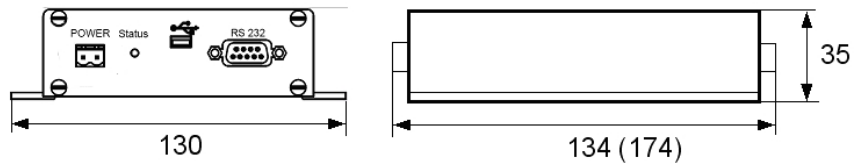
Controller STAND ALONE:

Q1, Q2: 134 x 115 x 64 mm; Q3: 174 x 115 x 64 mm



Controller OEM:

Q1, Q2: 134 x 130 x 35 mm; Q3: 174 x 130 x 35 mm

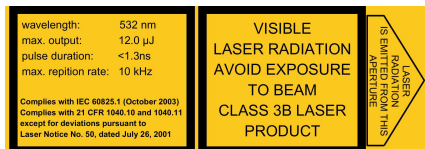


Laser Safety Labels

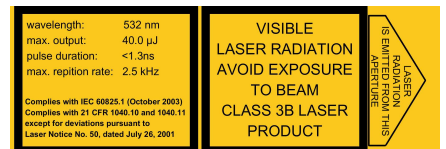
The FDSS532-Q lasers are class 3B according to IEC 60825-1:2007



Q1 series



Q2 series



Q3 series

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Product specifications are subject to change without notice.

