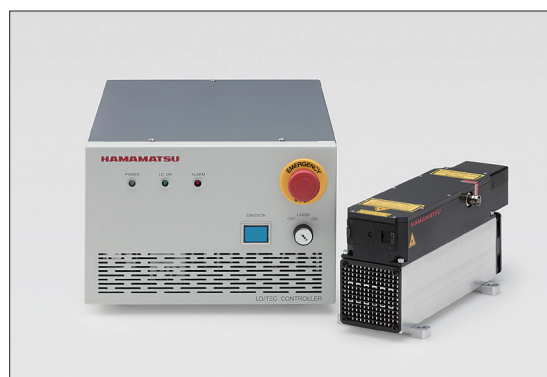


### ■ Features

- Pulsed energy: 2 mJ
- Single longitudinal mode is possible.
- Customizing products of SHG (2nd harmonic generation) and THG (3rd harmonic generation) is possible.
- Maintenance free

### ■ Applications

- Various analyses (LIBS, terahertz, Raman spectroscopy, photoacoustics, and mass spectrometry)
- Ablation processing (drilling, repair)



### ■ Outline

This is a passively Q-switched, short-pulse laser capable of a high-energy output of 2 mJ despite its compact laser head. The integrated laser resonator realizes maintenance-free and compact design that does not require alignment adjustment of the resonator.

### ■ General ratings

Parameter	Value	Unit
Operating temperature *1	+15 to +35	°C
Storage temperature	-10 to +45	°C
Operating relative humidity *1	60 or less	%
Storage relative humidity *1	70 or less	%
Installation location	Indoor, no direct sunlight	—
Cooling	Air cooling	—
AC input power specifications	AC100-240 V (tolerance: ±10 V) 50/60 Hz, 300 VA or less (fuse T6.3 A)	—
Head weight	3	kg
Power supply weight	8	kg

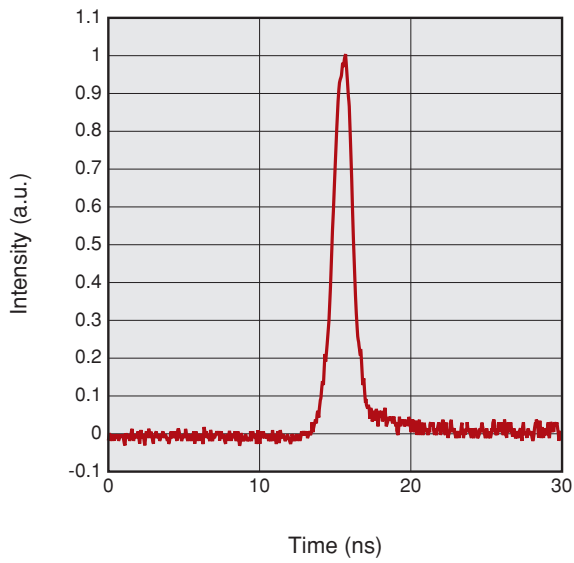
\*1 No condensation

### ■ Specifications

Parameter	Min.	Typ.	Max.	Unit
Center wavelength	1063	1064	1065	nm
Pulsed energy	0.5	2	2.5	mJ
Repetition rate	—	100	—	Hz
Pulse width (FWHM)	0.5	1.25	2	ns
Beam quality (M <sup>2</sup> )	2	4	5	—
Output stability	—	—	1.5	%rms / 30 min@25°C
Beam divergence angle	—	—	20	mrad

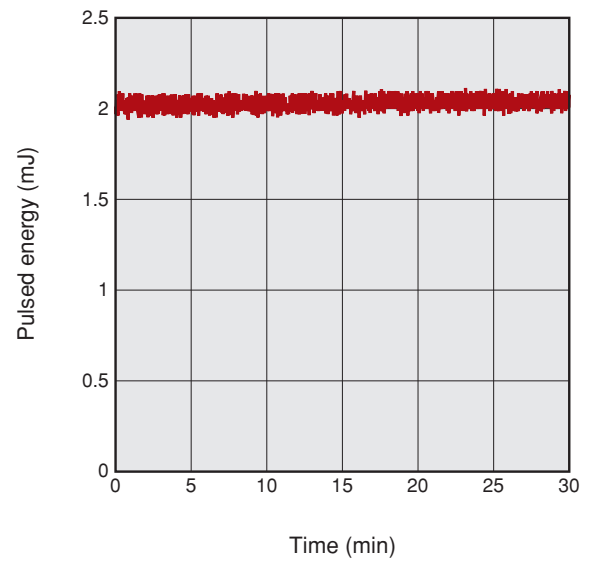
# Pulsed Solid State Laser L11038-11

Figure 1: Output waveform (example)



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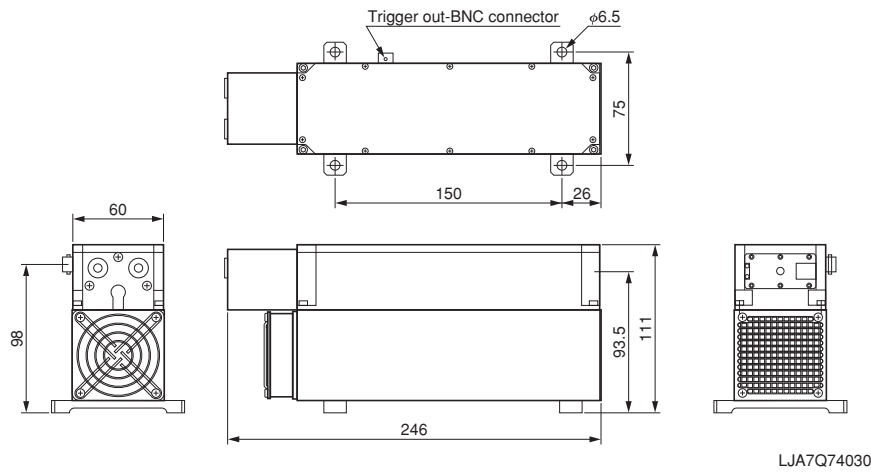
Figure 2: Pulsed energy (example)



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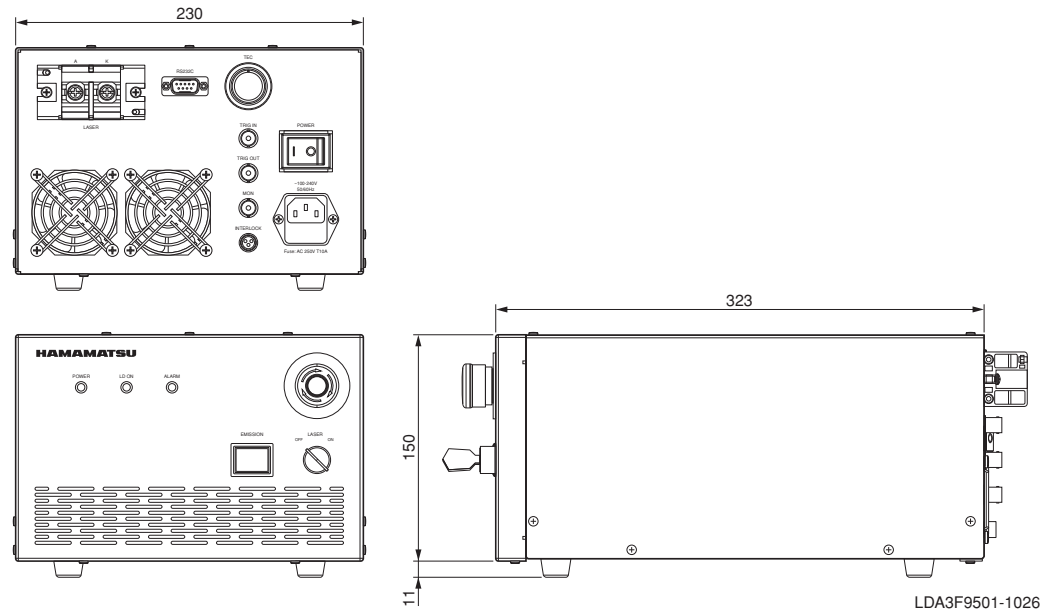
Figure 3: Dimensions (unit: mm)

●Laser head



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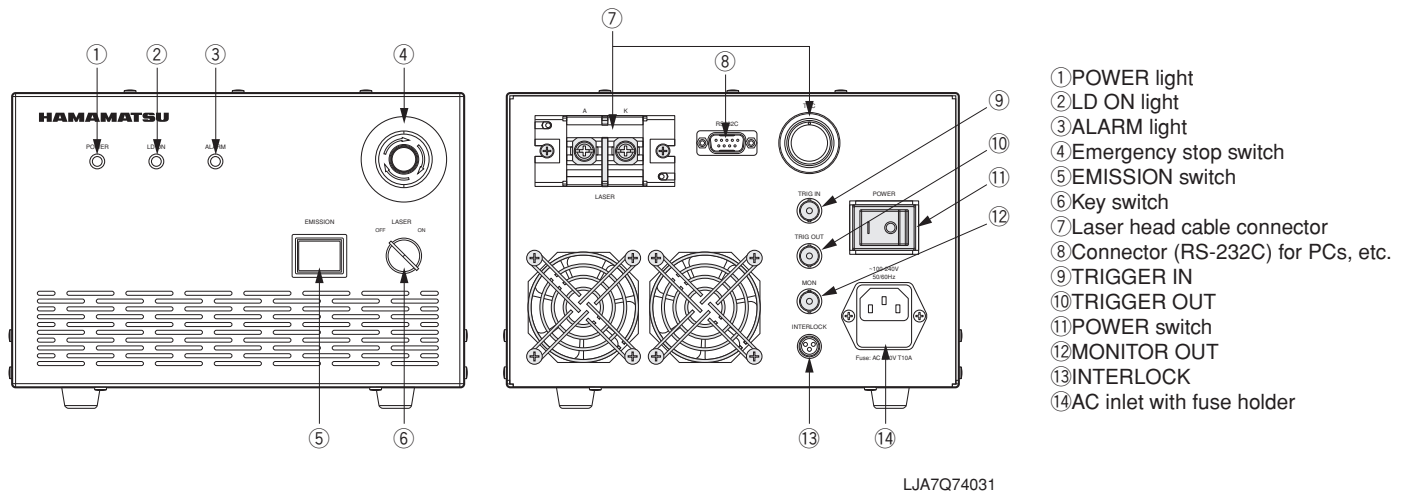
●Power supply controller



LDA3F9501-1026

# Pulsed Solid State Laser L11038-11

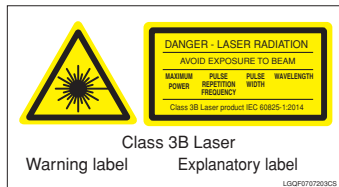
Figure 4: Rear panel components



## Warning (Class 3B Laser)

Invisible laser radiation: Avoid exposure to beam

●The laser radiation emitted from this product is an invisible laser beam that cannot be seen by the human eye. This product falls within "Class 3B Laser" according to IEC 60825-1 laser product classification. Always comply with IEC 60825-1 safety standards when using this product.



●Information described in this material current as of September 2021. Specifications are subject to change without notice.

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