

266 nm UV Narrow Pulse Width Passively Q-switched Pulse Laser MPL-N-266N

Model #: MPL-N-266N

Description: Passively Q-switched 266nm UV laser, pulse width as short as 1.3ns, up to 3μJ pulse energy, 1 ~ 30mW average power.

Features: Single pulse energy up to 3μJ, TEC cooling, lightweight and compact, long lifetime and high reliability

Application: UV curing, micro-electronics, CD carving, laser medical treatment, lab applications etc.

Specifications

Wavelength (nm)		266 ± 1
Output Power (mW)		1 ~ 30
Transverse Mode		Near TEM ₀₀ , elliptical
Operating Mode		Cr:YAG passively Q-switched pulsed laser
Pulse Energy (μJ)		0.1 ~ 3
Pulse Duration (ns)		~ 1.3
Peak Power (W)		80 ~ 2,300
Repetition Rates (KHz)	Fixed	Specified one rep. rate (such as 3k, 4k or 5kHz, with stable pulse energy, duration and period).
	External Trigger	Variable rep. rates in the range of 3kHz-5kHz can be triggered by an external TTL signal.
	Free Run	Undefined rep. rate among 10k-15kHz and unstable laser pulse emitting. Suitable for the applications that need high peak power pulses
Average Power (mW)		Pulse energy (μJ) x rep. rate (kHz)
Average power stability (over 4 hrs.)		<3%, <5%, <10%
Warm-up Time (minutes)		<10
M ² Factor		< 1.5
Spectral Purity		> 99%
Beam Parameters*		Elliptical 4:1; beam diameter ~ 0.5 x 2mm
Beam Height from Base Plate (mm)		70
Operating Temperature (°C)		10 ~ 35
Power Supply (90-264VAC)		PSU-N-LED, or PSU-N-FDA
Expected Life Time (hrs.)		8000
Warranty Period		1 year

*Because of the walk-off effect of nonlinear crystals, the beam quality at 266nm is not as good as that at 1064 or 532 nm.

Ordering Information: MPL-N-266-AAA-B-C-D

AA: average power	B: rep. rate	C: power stability	D: power supply
005 – 1-5mW/0.1-1.0 μJ	1 - Fixed one rep. rate	10 – 10%	1 - PSU-N-FDA
010 – 10mW/2μJ	2 - External trigger	5 – 5%	2 - PSU-N-LED
020 – 20mW/2μJ	3 – Free run	3 – 3%	
030 – 30 mW/3μJ			

MPL-F-266
(with 266/532/1064nm laser included)



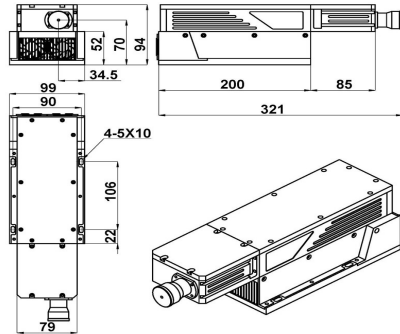
321 (L)×99(W) ×94(H) mm³, 1.6 kg

PSU-N-FDA



153 (L) ×155(W) ×92 (H) mm³, 1.5kg

MPL-N-266 head



PSU-N-LDA (drawing)

