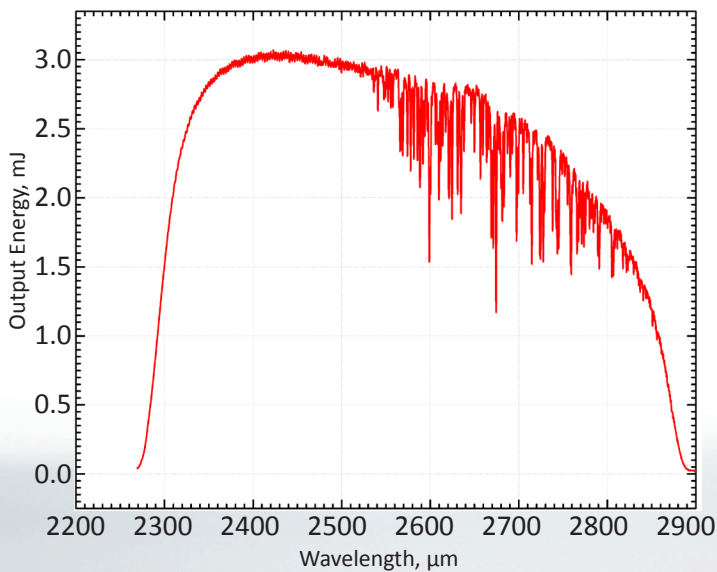


CLPN AND CLPNT SERIES

Nanosecond Pulsed Cr:ZnSe/S Lasers

Tuning Curve of Pulsed Cr:ZnSe Laser



Fixed Frequency or Tunable
Air-cooled Optical Head



FEATURES

- ▶ Selectable Wavelength 2.4-3.0 μm
- ▶ Pulse Energy >3 mJ
- ▶ Repetition Rate 0.1 -2 kHz
- ▶ Pulse Duration 0.7 -15 ns
- ▶ Excellent Beam Quality
- ▶ Compact and Low Cost



APPLICATIONS

- ▶ Medical Applications
- ▶ Environmental Monitoring
- ▶ Industrial Process Control
- ▶ Materials Processing

IPG Photonics offers CLPN and CLPNT Cr:ZnSe/S pulsed nanosecond Mid-IR lasers. Customer can select a fixed frequency or tunable model in the 2.4-3.0 μm wavelength range. These lasers provide pulse energy up to 3 mJ, a pulse duration range of 0.7-15 ns and a pulse repetition rate up to 2 kHz. The Cr:ZnSe/S lasers are pumped by IPG Photonics' efficient and reliable thulium fiber laser. CLPN and CLPNT pulsed Mid-IR lasers are used for materials processing, environmental monitoring and medical applications.

CLPN AND CLPNT SERIES

Nanosecond Pulsed Cr:ZnSe/S Lasers

	CLPN	CLPNT
Mode of Operation	Pulsed	
Central Wavelength	Fixed, Customer Selected 2.4-3.0 μm	Tunable, 2.4-3.0 μm
Max Average Power, W	3	
Pulsed Energy, mJ	1-3	
Pulse Duration, ns	0.7-15	
Repetition Rate, kHz	0.1-2.0	
Polarization	Random or Linear	Linear, Horizontal, >100:1
Beam Mode Quality, M^2	<5	
Beam Diameter (FW, $1/e^2$), mm	<4.5	
Warm up Time, min	5 from Standby, 15 from Cold Start	

Pump Laser	IPG Photonics CW Tm Fiber Laser
Pump Laser Dimensions (W x D x H), mm	448 x 403 x 132
Optical Head Dimensions (W x D x H), mm	270x300x110 (air cooled) or 260x206x72 (water cooled)
Optical Head Cooling	Air
Supply Voltage 50-60 Hz, VAC	110-240
Power Consumption*, W	100-800

*Electrical power consumption depends on the maximum output energy of the system.



+1 (508) 373-1100;
IPGPhotonics.com/contact
www.ipgphotonics.com

MAX. AVERAGE OUTPUT POWER: 6 W
 MAX. PEAK OUTPUT POWER: 2 MW
 PULSE DURATION: 2-20 ns
 PULSE REPETITION RATE: 0.1-1 kHz
 WAVELENGTH RANGE: 2000-3300 nm

DANGER - INVISIBLE LASER
 RADIATION AVOID EYE OR SKIN
 EXPOSURE TO DIRECT OR
 SCATTERED RADIATION
 CLASS 4 LASER PRODUCT
 IEC 60825-1:2014

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