

PicoYL-15

YSL Photonics' PicoYL-15 has a continuously tunable pulse duration from 100 ps to 4 ns and repetition rates from 100 kHz up to 5MHz. The short pulse duration, high repetition rates combined with over 50kW peak power give high speed, permanent black/color marking on a variety of metals, thin film coating and thermal sensitive materials. The single mode beam quality picosecond pulses with over 50kW peak power open up a variety of micromachining applications such as Li-Ion battery foil cutting, resistor trimming and marking of transparent material. The laser is completely controlled via an industry standard digital interface with optional DB25 or RS-232.



Features :

- Average Power >15W
- Pulse Duration 100ps-4ns
- Peak Power 50kW
- Repetition Rate 100kHz-5MHz
- Pulse Energy >150μJ@4ns or >30uJ@600ps
- $M^2 < 1.3$
- Burst Mode Function

Applications :

- Black Marking
- Lion Ion Battery Foil Cutting
- Thin Film Solar Cell Scribing
- Silicon or SiC Dicing
- Resister Trimming
- Chrome Vanadium Texturing
- Micromaching of Transparent materials

Specifications :

Model	PicoYL-15
Wavelength	1064nm
Average Power	>15W
Repetition Rate	100kHz-5MHz
Power Stability	<2%
Pulse Energy	>30uJ@600ps or >150uJ@4ns
Peak Power	50kW
Pulse Duration	600ps-4ns
Switch On/Off Time	<5us
Beam Quality	$M^2 < 1.3$
Beam Diameter	7mm
Beam Divergence	<1mrad
Output Polarization	Random
Trigger	SMA
Supply Power/Current	DC24V/8A
Dimensions	300mm*270mm*70mm
Control	RS232 or DB25