

# Microchip

Picosecond - Nanosecond  
Pulsed Laser



## Features

Down to 300 ps

1064 nm to 236.5 nm

Single shot to 100 kHz

Up to 80 uJ

Up to 50 kW

$M^2 < 1.3$

SLM



## Applications

Oled

Micromachining

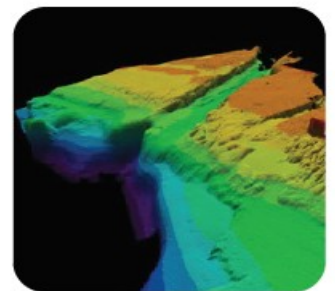
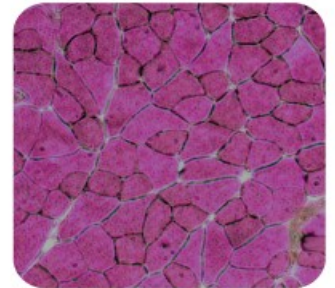
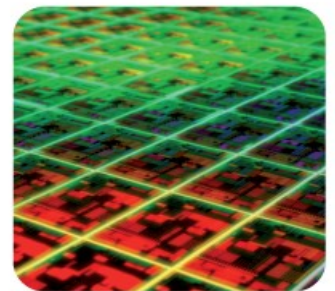
Biophotonics

Lidar, Telemetry

Laser manufacturing

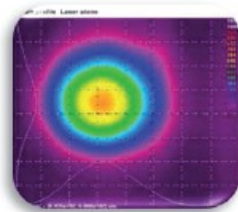
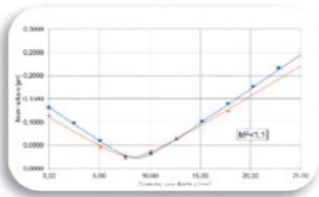
Non-linear optics, Spectroscopy, Raman

Holography



# Microchip Lasers

	Nanoseconds		Picoseconds
<b>Pulsewidth Ranges</b>	< 2 ns	< 1.3 ns	< 400 ps
<b>Pulse Energy</b>	up to 35 $\mu$ J	up to 80 $\mu$ J	up to 2 $\mu$ J
<b>Repetition Rates</b>	up to 10 kHz	up to 15 kHz internal and external triggered	up to 100 kHz
<b>Output Peak Power</b>	up to 20 kW	up to 50 kW	up to 5 kW
<b>Package</b>	FP3, P4	FP3, P4	FP3, P4
<b>Output Wavelengths</b>	946, 473, 236.5 nm	1064, 532, 355, 266 nm	
<b>Beam quality (M<sup>2</sup>)</b>	< 1.3		
<b>Electrical Requirements</b>	DC power supply 15V, < 3 A		
<b>Size</b>	FP3: 35x50x16 mm <sup>3</sup> P4: 39x60x19 mm <sup>3</sup>		
<b>Weight</b>	FP3: < 0.15 kg P4: < 0.20 kg		
<b>Operating Temperature</b>	+10 to +40 °C		
<b>Storage Temperature</b>	-20 to +60 °C		



## OPTIONS AVAILABLE :

- Internal photodiode
- Beam Expanding and Collimating optics
- Circular Polarization
- Heat-Sink
- AC DC Power Supply
- Custom packaging

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