脈衝式固態雷射
Pulsed Solid-State Laser

Composing with light
teem photonics

MicroChip系列脈衝雷射

Ultra Compact Passively Q - Switched Laser

Applications

- Supercontinuum generation
- Marking
- Raman spectrometry
- Ranging

Teem Photonics' MNx series are our most compact 1535nm, 1064nm and 532nm microchip lasers. Integrating the pump diode, the microcavity and even the second harmonic generation crystal in a package less than 7cm long.
The high peak power produced by the 1064nm engine, allows to achieve and excellent second harmonic generation efficiency, over 50%, to 532nm The controller allows to remotely monitor the laser status but also to drive the laser emission on and off.

Infrared 1535nm

Model	MNE-06E
Peak Power (kW)	1.8
Average Power (mW)	19.5
Repetition rate (kHz)	3
Pulse Width (ps)	3500
Energy/Pulse (µJ)	> 6.5

Infrared 1064nm

Model	MNP-06E	MNP-08E
Peak Power (kW)	10	13
Average Power (mW)	60	60
Repetition rate (kHz)	9	7
Pulse Width (ps)	700	700
Energy/Pulse (µJ)	> 7	> 9

Green 532nm

Model	MNG-03E
Peak Power (kW)	6
Average Power (mW)	25
Repetition rate (kHz)	7
Pulse Width (ps)	550
Energy/Pulse (µJ)	3.5

Optional features

- Fiber coupling
- CDRH compliant

Features & benefits

Licensed Technology
Exclusive licence on Passively Q-switched picosecond microlaser.
US Patent 5394413

Gaussian beam
TEM_{00}, $M^2 \leq 1.3$

100's ps pulse width
Very short pulses down to 550ps resulting in high peak power.

Multi kHz repetition rate
Up to 12kHz.

Ultra compact package
About 6cm long

Air cooled
Less than 10W power dissipation required from simple heatsink during normal use.

RS232 connection
Easy laser diagnostic and control.

Rugged design
Shock resistant up to 2g.
Vibration resistant up to 25g.

Low power consumption
Requires less than 20W thanks to its optimised design and efficient diode pumping.

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