

Features & benefits

Licensed Technology

Exclusive licence on Passively Q-switched pico-second 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.

Optional features

Fiber coupling

CDRH compliant

Ultra compact Passively Q-Switched laser

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.



Infra Red 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 |

Typical values

Infra Red 1064nm

| Model | MNP-04E | MNP-06E | MNP-08E |
|-----------------------|---------|---------|---------|
| Peak Power (kW) | 8 | 10 | 13 |
| Average Power (mW) | 70 | 60 | 60 |
| Repetition rate (kHz) | 11.5 | 9 | 7 |
| Pulse Width (ps) | 700 | 700 | 700 |
| Energy/Pulse (μJ) | >6 | >7 | >9 |

Typical values

Green 532nm

| Model | MNG-015E | MNG-03E |
|-----------------------|----------|---------|
| Peak Power (kW) | 3.5 | 6 |
| Average Power (mW) | 25 | 25 |
| Repetition rate (kHz) | 12 | 7 |
| Pulse Width (ps) | 550 | 550 |
| Energy/Pulse (μJ) | 2 | 3.5 |

Typical values

Applications

- Supercontinuum generation
- Marking
- Raman spectrometry
- Ranging