



# Sub-nanosecond Amplified Microchip PicoSpear Series



BNG-15E-000 laser model

## BENEFITS

- Ultra-Short Pulses for higher precision
- Adaptable pulse energy for versatile control
- Excellent beam quality – TEM00,  $M^2 < 1.3$
- Compact and efficient
- Sealed package for long-term use

The PicoSpear Amplified Microchip Series offers a groundbreaking solution for applications requiring adaptable, high precision lasers. Designed with precision and efficiency in mind, this laser series delivers exceptional performance and reliability.

	BNG-series*
Wavelength**	532 nm
Energy	Up to 30 $\mu$ J
Average Power	Up to 500 mW
Pulse duration	Down to 650 ps
Repetition Rate	Up to 100 kHz
$M^2$	< 1.3
Beam divergence	On demand
Power stability (long term)	< $\pm$ 3% rms
Dimensions (laser head)	95x215x40 mm

## APPLICATIONS

- Instrumentation
  - LIDAR and laser ranging
  - Photopolymerization
  - Atmospheric monitoring
- Micromachining
  - Material ablation at  $\mu$ m and nm scale
  - PCB repair

(\*) Preliminary specifications.  
(\*\*) Also available in 1064 and 355 nm. Contact factory for more details.