

Low-noise picosecond laser module designed for OEM and R&D applications

- Pedestal-free high quality pulses
  - Clean and narrow optical spectrum – no ripple
  - Very low amplitude and phase noise
  - No amplifier built in – no ASE noise
  - Internal optical isolation stage
  - High repeatability and 24/7 operation
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- Compact, dust-sealed OEM package
  - Plug & play
  - Passively air cooled – no water cooling
  - Low power consumption
  - Remote control
  - One-button operation – no adjustment knobs or screws
  - Maintenance free – no user-serviceable parts inside or outside laser



	Genki – 10	Genki – 15
Center wavelength	1030 – 1064 nm	1530 – 1575 nm
Pulse duration	1 – 15 ps	< 5 ps
Average output power (up to)	15 mW	150 mW
Pulse repetition rate	40 – 250 MHz	
Spectral bandwidth	< 2 nm	< 5 nm
Output <sup>1</sup>	collimated free space, $M^2 < 1.1$	
PER	> 20 dB	
Amplitude noise	< 0.2% rms, < 0.5% pk-pk (24h)	
Center wavelength drift	< 0.1 nm pk-pk (24h)	
Warm-up time	< 10 minutes	
Specs guaranteed	10 °C – 40 °C	
Storage temperature	-15 °C – 65 °C	
On/Off cycles	> 10'000	
Size laser head <sup>2</sup>	296 x 112 x 54 mm <sup>3</sup>	
Size std. controller	165 x 104 x 40 mm <sup>3</sup>	
Power consumption	< 15 W	
Power supply	90 – 264 VAC, 47 – 63 Hz	
Weight laser head <sup>2</sup>	2.5 kg	
Weight controller	0.65 kg	

#### Options

- Synchronization to external clock for ultra-low timing jitter
- Electrical interface for pump power control
- Piezo controlled cavity length
- Repetition rate tunability
- Wavelength tunability
- Internal monitor PD
- Optical isolator

#### On request

- Other pulse repetition rates
- Integration of user-defined opto-electronic devices

<sup>1</sup> fiber output is available as an option

<sup>2</sup> exact size and weight depend on the pulse repetition rate, data for 80 MHz version

#### Sample data Genki – 10

