



“Eye-safe” 1,54 μm ns lasers “KAUKAS 0.3”

Main features

- Robust design
- Integration into portable devices
- OEM version available

Application examples

- LIDAR & Laser Ranging
- LIBS
- Metrology and instrumentation

„Eye-safe” 1,54 μm wavelength nanosecond lasers “KAUKAS 0.3” possess a unique compact design and are available in OEM models for dedicated applications. This specific “eye-safe” 1,54 μm wavelength lasers model “KAUKAS 0.3” delivers up to 0.3 mJ energy per pulse with a repetition rate of up to 10 Hz. The unique laser optical design requires only up to 10 A pump current allowing this laser to be integrated into portable energy – efficient devices.

Standard specifications

LASERS “KAUKAS 0.3” STANDARD SPECIFICATIONS	
Wavelength	1534 nm
Wavelength tolerance	± 1 nm
Repetition rate	1-10 Hz
Pulse energy	0.3 mJ
Energy stability, STD	<2 %
Pulse duration	<5 ns
Beam diameter at exit window	<1 mm
Beam quality	$M^2 < 2$
Beam profile	TEM ₀₀

Standard products

LASER MODEL	WAVELENGTH	REPETITION RATE	PULSE ENERGY	PULSE DURATION	OPERATING TEMPERATURE	WEIGHT	SKU
KAUKAS 0.3	1534 nm	1-10 Hz	0.3 mJ	<5 ns	-20 - +40 °C	0,2 kg	32273

Utility requirements

LASERS “KAUKAS 0.3” UTILITY REQUIREMENTS	
Laser module dimensions	85 x 26 x 20 mm (L x W x H)
Laser driver dimensions	128 x 83 x 48 mm (L x W x H)
Pump current	<10 A
Pump duration	<4 ms
Electric	100-240 V AC, 3,6 A, 50/60 Hz
Working temperature	-20 - +40 °C
Cooling	Passive air cooling