



"Eye-safe" 1,54 μm ns lasers "KAUKAS HR"

Main features

- Compact robust design
- Energy per pulse $>30 \mu\text{J}$ @ 1 kHz
- Pulse repetition rate control
- OEM version available

Application examples

- LIDAR & Laser Ranging
- LIBS
- Metrology and instrumentation
- Automotive

"Eye-safe" 1,54 μm wavelength nanosecond high repetition rate (up to 1 kHz) DPSS lasers „KAUKAS HR“ possess a unique compact design and are available in OEM models for dedicated applications. „KAUKAS HR“ laser models have adjustable repetition rate feature. They deliver more than 30 μJ energy per pulse with a repetition rate of up to 1 kHz available on request.

Standard specifications

LASERS "KAUKAS HR" STANDARD SPECIFICATIONS	
Wavelength	1534 nm
Wavelength tolerance	$\pm 1 \text{ nm}$
Repetition rate	100 Hz - 1 kHz
Pulse energy	$>30 \mu\text{J}$
Energy stability, STD	$<2 \%$
Pulse duration	$<6 \text{ ns}$
Beam diameter at exit window	$<1 \text{ mm}$
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 HR	1534 nm	100 Hz	$>45 \mu\text{J}$	$<7 \text{ ns}$	15 - 35 °C	0,2 kg	9746
		1 kHz	$>30 \mu\text{J}$	$<7 \text{ ns}$	15 - 35 °C	0,2 kg	15575

Utility requirements

LASERS "KAUKAS HR" UTILITY REQUIREMENTS	
Laser module dimensions	111 x 34 x 25,5 mm (L x W x H)
Laser driver dimensions	164 x 105 x 44 mm (L x W x H)
Pump current	$<7 \text{ A}$
Electric	100-240 V AC, 50/60 Hz
Working temperature	15 - 35 °C
Cooling	Passive air cooling


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