KAUKAS 3

DPSS Laser, ns Pulsed, 1534 nm, >3 mJ, SS-1 Hz, <8 ns

Key Features:

- 1534 nm "eye-safe" wavelength
- Compact, low SWaP, and robust design
- LAB, LAB-OEM & OEM versions
- Integration into portable devices
- Configurable & customizable
- Single Shot to 1 Hz rep. rate
- High-quality TEM00 beam
- 10-40°C operating temp. range
- -20-60°C for OEM version

There are many configurations and options available. If you do not see exactly what you need below, please contact us!

Need Quantities? Have a question?

Get Answers

POPULAR CONFIGURATIONS:

Picture	Part Number	Part Description	Datasheet	Lead Time	
	KAUKAS 3_LAB	DPSS Laser, ns Pulsed, 1534 nm, >3 mJ, SS-1 Hz, <8 ns, 10-40 deg C, w/ power supply & driver		Inquire	Get Quote
	KAUKAS 3_LAB-OEM	DPSS Laser, ns Pulsed, 1534 nm, >3 mJ, SS-1 Hz, <8 ns, 10-40 deg C		Inquire	Get Quote
	KAUKAS 3_OEM	DPSS Laser, ns Pulsed, 1534 nm, >3 mJ, SS-1 Hz, <8 ns, -20-60 deg C		Inquire	Get Quote

Overview: Specifications: Datasheets/Downloads: Applications: Videos:

The KAUKAS series is a compact, low-SWaP line of 1.54µm "eye-safe" Er:glass lasers. These nanosecond pulsed lasers feature a compact design that makes them suitable for integration into handheld, portable devices. The lasers deliver high pulse energy, repetition rates up to 5Hz, less than 3% energy stability, and a high-quality TEM00 beam. With configurable and customizable options, these features make the KAUKAS series a versatile choice for various applications such as LIDAR & laser ranging, LIBS, metrology, and instrumentation.

Benefits:

- **Eye-safe**: Ensures safety during operation as the lasers operate at a wavelength that is not harmful to the retina under normal conditions.
- **Robust, low-SWaP Design**: Allows for easy integration into handheld and portable devices deployed in harsh environments.
- **OEM Version Available**: Provides flexibility for dedicated applications with a customizable OEM and LAB-OEM version.
- **High Pulse Energy**: Enables high-performance operation with high energy per pulse.
- **Stable Performance**: Guarantees reliable results with less than 3% energy stability.
- **Good Beam Quality**: Ensures precise results with an M2 value of less than 2 and a TEM00 beam profile.
- **Peace of Mind:** 1-year manufacturer warranty and ≈ 1G-shot rated lifetime.

If you have any questions or need more information, please contact us.

HOW CAN WE HELP YOU?

Talk to one of our experienced product managers today!

CONTACT US

PULSED LASERS FAQS

What is a Pulsed Laser? +

What is the best laser for LIDAR? +

What is the best laser for tattoo removal? +

What is the best laser type for multi-photon microscopy? +

What is the difference between active and passive q-switching? +

What type of laser is used for LIBS? +

Which IR laser is best for laser target designation? +

PULSED LASERS BLOG POSTS

Pick a Color, Any Color! Versatile, User-Friendly, Tunable OPO Laser
Custom, Integrated System Platforms for Customer-Specific Applications
Want to Minimize Your LIDAR Footprint, Cost, and Energy Consumption?
What is a Thin Disk Laser, and What Advantages Do They Offer?
The Advantages and Disadvantages of Passive vs Active Q-Switching
QCLs & New Low-Cost IR Sensors Open Door for Many OEM Opportunities
OEM Fiber Lasers for Industrial Laser Induced Breakdown Spectroscopy
Microchip Lasers: Fully Integrated Modules for LIDAR & 3D Scanning
Laser Source Requirements for Modern Laser Designator Systems
Replacement Laser for Discontinued Coherent Helios

PULSED LASERS WHITE PAPERS

neoMOS Laser Systems: Flexible and Versatile Solutions for Any Application
Laser Requirements for Time Gated Active Night Vision Imaging Systems
Laser Requirements for Wind Turbine Monitoring LiDAR Systems
Single Frequency Fiber Lasers for Doppler LiDAR
How Mode-Locked Lasers Affect the Past, Present, and Future of Two-Photon Microscopy
Laser Sources for Lidar Applications