

PULSED ER:YAG LASER @ 2.94 μm



Model: ERB 15 OEM

Our OEM based, pulsed, high energy Erbium YAG Laser System „ERB 15 OEM“ will offer unique specifications in the field of MID-IR Lasers. It will generate very short pulses of $< 140 \text{ ns}$ combined with high pulse energies of $> 15 \text{ mJ}$ at a maximum repetition rate of 10 Hz. This characteristics and the fact, that the wavelength of $2,94 \mu\text{m}$ is strongly absorbed in water will make this system an efficient tool for micro machining of water or OH- containing materials.



APPLICATIONS:

- Ophthalmic microsurgery
- Surgical scalpel
- Laser perforator
- Cataract surgery

SPECIFICATIONS:

Wavelength:	2,94 μm
Pulse Energy:	$> 15 \text{ mJ}$
Polarization:	random
Repetition Rate:	1 Hz-10 Hz
Pulsewidth:	$\sim 140 \text{ ns}$
Operating modes:	Pulsed
Operating temperature:	15°C to 26°C
Beam quality:	$< 1,5 \text{ M}^2$
Optical module:	600 mm x 200 mm x 200 mm



The ERB 15 system is a OEM version of a Impex HighTech GmbH diode-pumped solid state laser. As such, it is intended only for integration into other equipment. The ERB 15 Laser does not comply with Center for Devices and Radiological Health (CORH) standards. The customer is responsible for CORH certification of any system that incorporates the ERB 15 Laser.



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