

HOLMIUM FIBER LASER



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Overview

HOLMIUM FIBER LASER has a full fiber construction. The device emits a spectral line in the mid-infrared region of the optical spectrum. The working wavelength of laser radiation is 2100 nm. Output optical power is 10 W.

Rational, economically promising technical solution was applied during the development of this laser source. There are no fiber combiners and expensive pumping with a thulium fiber laser in the device. This made it possible to abandon the use of expensive laser diodes emitting at a wavelength of 793 nm.

Key Features

- There is no fiber combiners and expensive pumping
- Power stability
- High reliability and efficiency

Technical Description

Parameter	Value
Operating Wavelength	2100 ± 0.2 nm
Spectral line width	0.2 ± 0.05 nm
Average output power	Up to 10 ± 0.1 W
Operation mode	CW
Diameter of the mode field	10 ± 0.5 μm
Radiation quality	TEM ₀₀ (M ₂ < 1.12)
Optical Output Fiber	8/125/250 μm
Numerical aperture	0.15
Supply voltage	220 V, 50 Hz
Warm-up time	5 sec.
Dimensions	270x230x25 mm
Air humidity	Up to 80% (non-condensing)
Operating temperature	- 10 to + 50 C°