

Integrated Optics, UAB Company code: 302833442 VAT No: LT100007179012 https://integratedoptics.com info@integratedoptics.com



PART NUMBER 0488L-13A ITEM NAME 488 NM LASER (DIODE; SM FIBER)

PRODUCT DATASHEET

A88 nm WathBox

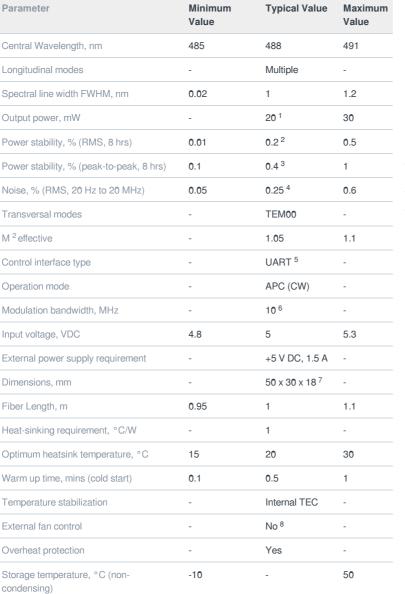
DESCRIPTION

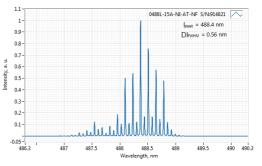
Main applications of CW 488 nm laser are flow cytometry, fluorescence spectroscopy and scanning microscopy. This laser is fiber coupled to a single mode fiber and delivers a beam of perfect quality.

SPECIFICATIONS

Specifications updated: 1 October 2020

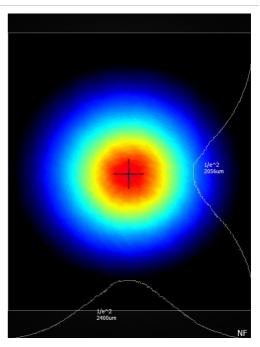
TYPICAL SPECTRUM





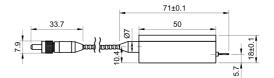
Typical spectrum of 0488 nm diode laser. Measured with 20 pm resolution.

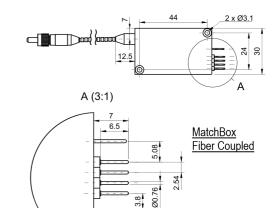
TYPICAL NEAR FIELD



Net weight, kg	0.1	0.12	0.14
Max. power consumption, W	0.4	2	10
Warranty, months (op. hrs)	-	14 (10000) ⁹	-
RoHS	-	Yes	-
CE compliance	-	- General Product Safety Directive (GPSD) 2001/95/EC - (EMC) Directive 2004/108/EC	-
Laser Safety Class	-	3B	-
OEM lasers are not compliant with	-	IEC60825- 1:2014 (compliant using additional accessories)	-
Country of origin	-	Lithuania	-

DRAWING





¹ The optical power can be tuned from virtually 0% to 100%. However, other specifications, such as central wavelength, power stability, noise, polarization ratio, beam shape, quality and circularity are not guaranteed at power levels other than factory preset power. Significantly worse power stability is to be expected at very low power levels, e.g. <3% from specified nominal power.

 2 The long term power test is carried out at constant laser body temperature (+/-0.1 $\,^\circ\text{C})$ using an optical power meter with an input bandwidth of 10 Hz. The actual measurement rate has a period of about 20 seconds to 1 minute.

 3 The long term power test is carried out at constant laser body temperature (+/-0.1 °C) using an optical power meter with an input bandwidth of 10 Hz. The actual measurement rate has a period of about 20 seconds to 1 minute.

 4 Noise level is measured with a fast photodiode connected to an oscilloscope. The overall system bandwidth is from 2 kHz to 20 MHz.

⁵ Break-out-boxes AM-C8 and AM-C3 can be used for conversion of UART communication to either USB or RS232. ⁶ TTL digital modulation up to 10 MHz.

⁷ Excluding control interface pins and an output window/fiber assembly.

⁸ This function can be enabled in hardware only if the fast modulation option is disabled. The customer must specify this before ordering the laser.

⁹ Whichever occurs first. The laser has an integrated operational hours counter.

Note: Product specifications are subject to change without prior notice to improve reliability, function or design or otherwise.