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PART NUMBER 0515L-14A ITEM NAME 515 NM LASER (CW, DIODE; MM FIBER)

PRODUCT DATASHEET



DESCRIPTION

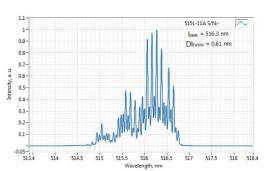
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Green laser sources are often used for fluorescence excitation, Raman scattering, as well as for Ti:sapphire pumping applications. High long-term power stability is ensured by TEC thermal stabilization, thermal and optical feedbacks. USB comunication lets laser to be easily controlled by connecting it to computer in any laboratory. 515 nm laser diode module is provided with 105 μ m core MM fiber.

SPECIFICATIONS

Minimum Value	Typical Value	Maximum Value
510	515	520
-	multiple	-
-	1	1.2
-	40 ¹	-
-	1 ²	2
-	2 ³	3
-	0.8 4	2
-	Multiple	-
-	UART/USB	-
-	APC (CW)	-
-	optional ⁵	-
4.8	5	5.3
-	+5 V DC, 1.5 A	-
-	50 x 30 x 18 ⁶	-
0.95	1	1.1
-	1	-
15	20	30
0.1	0.5	1
-	Yes	-
-	Yes	-
-10	-	50
0.1	2	0.14
0.1	0.12	0.14
	Value 510	Value 510 515 - multiple - 40 ¹ - 1 ² - 0.8 ⁴ - Multiple - APC (CW) - optional ⁵ 4.8 5 - +5 V DC, 1.5 A - 50 x 30 x 18 ⁶ 0.95 1 - 1 15 20 0.1 0.5 - Yes - Yes -10 - 0.1 2

TYPICAL SPECTRUM



Typical spectrum of 0515 nm diode laser. Measured with 20 pm resolution.

Max. power consumption, W	0.4	2	10
Warranty, months (op. hrs)	-	14 (10000) ⁷	-
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	-

 $^{^1}$ 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.

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

 $^{^2}$ Long term power test is carried out using an optical power meter with an input bandwidth of 10 Hz. Actual measurement rate has a period of about 20 seconds to 1 minute.

 $^{^3}$ Long term power test is carried out using an optical power meter with an input bandwidth of 10 Hz. 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.

 $^{^{\}rm 5}$ TTL digital modulation up to 10 MHz.

 $^{^{\}rm 6}$ Excluding control interface pins and an output window/fiber assembly.

 $^{^{7}}$ Whichever occurs first. The laser has an integrated operational hours counter.