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PART NUMBER 0520L-24A ITEM NAME 520 NM SLM LASER (VBG DIODE; MM FIBER)

PRODUCT DATASHEET

520 nm Machaot

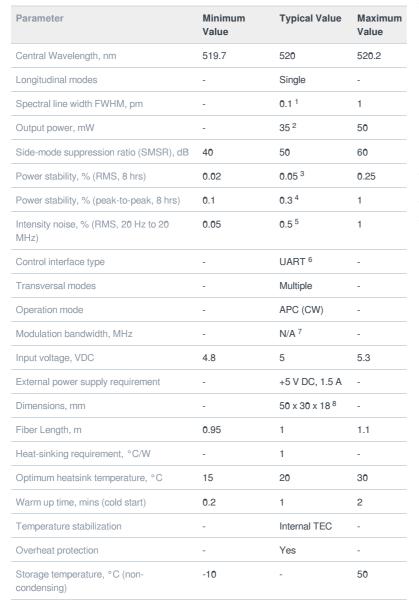
DESCRIPTION

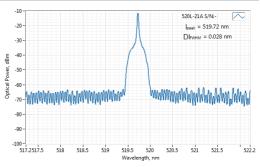
520 nm single-longitudinal mode (SLM) laser diode module coupled with multi-mode (MM) fiber. High long-term power stability is ensured by TEC thermal stabilization, as well as thermal and optical feedback.

SPECIFICATIONS

Specifications updated: 18 June 2021

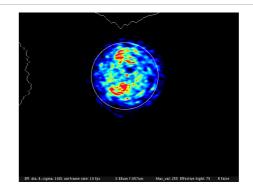
TYPICAL SPECTRUM





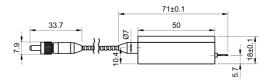
Typical spectrum of 0520 nm diode laser. Measured with 20 pm resolution.

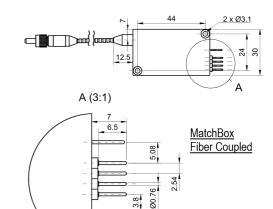
TYPICAL NEAR FIELD



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 Measured with a scanning Fabry-Perot interferometer having 7.5 Mhz resolution, with scanning frequency of about 10 Hz. Interferometer testing is not provided for each laser being manufactured, the standard test is OSA measurement with 10-20 pm resolution instead.

²The output power of SLM lasers shall not be tuned and SLM performance is not guaranteed at power ratings other than factory preset. However, the power setting capability is not disabled. External attenuators are recommended instead.

³The 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.

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with an input bandwidth of 10 Hz. The actual measurement rate has a period of about 20 seconds to 1 minute. ⁵Noise level is measured with a fast photodiode connected to an oscilloscope. The overall system bandwidth is from 2 kHz to 20 MHz.

⁶ Break-out-boxes AM-C8 and AM-C3 can be used for conversion of UART communication to either USB or RS232.

 $^7\,{\rm SLM}$ lasers shall not be modulated - use external modulators instead.

⁸ Excluding control interface pins and an output window/fiber assembly.

⁹Whichever 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.