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PART NUMBER 0830L-15A ITEM NAME 830 NM LASER (DIODE; PM FIBER)

PRODUCT DATASHEET

DESCRIPTION

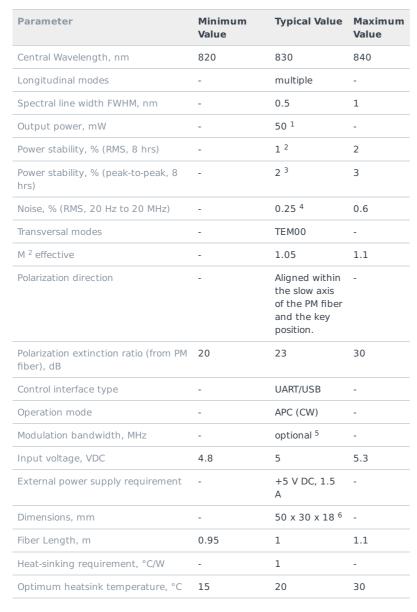
830 nm diode laser is fiber coupled to a single mode polarization maintaining fiber. It can provide up to 50 mW optical power and has polarization contrast of no less than 20 dB. Metal fiber jacket makes this laser really robust and reliable in every application.

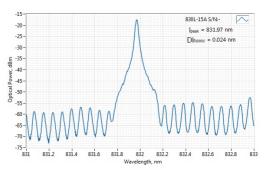


SPECIFICATIONS

Last edited on: 24 January 2019

TYPICAL SPECTRUM





Typical spectrum of 0830 nm diode laser. Measured with 20 pm resolution.

Warm up time, mins (cold start)	0.1	0.5	1
Temperature stabilization	-	Yes	-
Overheat protection	-	Yes	-
Storage temperature, °C (non- condensing)	-10	-	50
Net weight, kg	0.1	0.12	0.14
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.

 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.

 $^{\rm 4}$ Noise level is measured with a fast photodiode connected to an oscilloscope. The overall system bandwidth is from 2 kHz to 20 MHz.

⁵ Modulation is implemented upon request.

⁶ Excluding control interface pins and an output window/fiber assembly.

⁷ 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.