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PART NUMBER 0660L-16A ITEM NAME 660 NM LASER

PRODUCT DATASHEET

Red 660 nm laser with SMA output is a very compact high performance laser source for multimode fiber installations. Fiber could be supplied optionally.

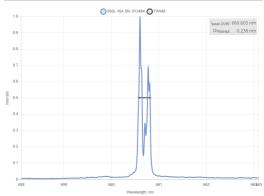
DESCRIPTION

SPECIFICATIONS

Specifications updated: 28 November 2023

Parameter	Minimum Value	Typical Value	Maximum Value
Central wavelength, nm	657	660	663
Longitudinal modes	-	Multiple	-
Spectral line width FWHM, nm	0.2	0.7	1
Output power, mW	-	90 ¹	-
Fiber coupling efficiency, %	50	70 ²	80
Fiber core diameter, µm	50	105	200
Power stability, % (RMS, 8 hrs)	0.01	0.1 ³	0.4
Power stability, % (peak-to-peak, 8 hrs)	0.1	0.5 ⁴	2
Intensity noise, % (RMS, 20 Hz to 20 MHz)	0.1	0.25 ⁵	0.6
Transversal modes	-	Multiple	-
Operation mode	-	APC (CW)	-
Modulation bandwidth, MHz	-	10 ⁶	-
Input voltage, VDC	4.8	5	5.3
External power supply requirement	-	+5 V DC, 1.5 A	-
Dimensions (WxDxH), mm	-	50 x 30 x 18 ⁷	-
Optimum heatsink temperature, °C	15	20	30
Warm up time, mins (cold start)	0.1	0.5	1
Temperature stabilization	-	Internal TEC	-
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) ⁸	-

TYPICAL SPECTRUM



Typical spectrum of 0660 nm diode laser. Measured with 20 pm resolution.

RoHS

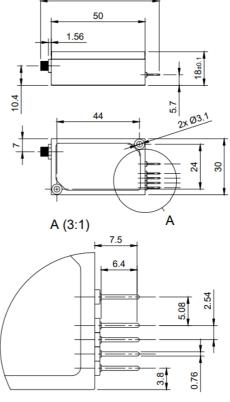
CE compliance	-	- General - Product Safety Directive (GPSD) 2001/95/EC - (EMC) Directive 2004/108/EC
Laser safety class	-	3B -
OEM lasers are not compliant with	-	IEC60825- 1:2014 (compliant using additional accessories)
Country of origin	-	Lithuania -

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Yes

63.2±0.1 50

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. ²Output power is heavily dependent on fiber insertion repeatability.

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. ⁴ 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. ⁵Noise level is measured with a fast photodiode connected to an oscilloscope. The overall system bandwidth is from 2 kHz to 20 MHz.

⁶ TTL digital modulation up to 10 MHz.

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

⁸Whichever 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.