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PART NUMBER 0660L-11A ITEM NAME 660 NM LASER (DIODE; FREE-SPACE)

PRODUCT DATASHEET



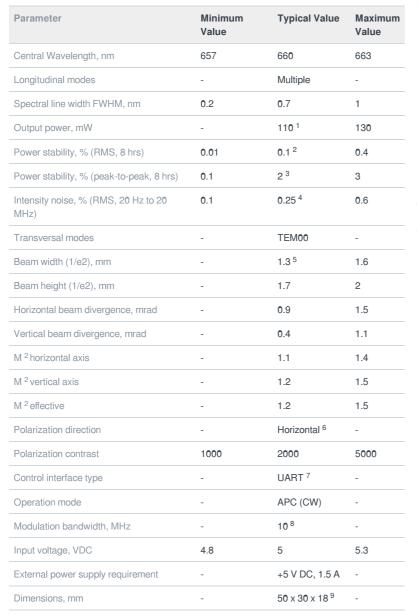
DESCRIPTION

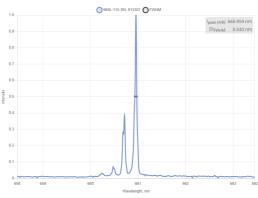
660 nm red diode lasers are used in numerous fluorescence based applications, such as imaging or sorting.

SPECIFICATIONS

Specifications updated: 28 July 2021

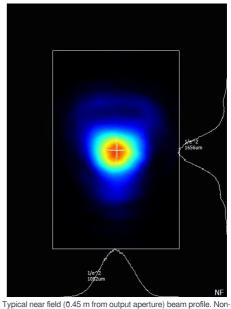
TYPICAL SPECTRUM





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

TYPICAL NEAR FIELD



circularized beam of a 0660 nm direct diode laser.

Beam height from the base, mm	9.9	10.4	10.9
Heat-sinking requirement, °C/W	-	1	-
Optimum heatsink temperature, °C	15	20	30
Warm up time, mins (cold start)	0.1	0.5	1
Temperature stabilization	-	Internal TEC	-
External fan control	-	No ¹⁰	-
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) 11	-
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 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.
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⁴ Noise level is measured with a fast photodiode connected to an oscilloscope. The overall system bandwidth is from

2 kHz to 20 MHz.

⁵Beam width and height are measured at 0.45 m from output aperture.

⁶ For lasers without integrated optical isolators.

⁷ Break-out-boxes AM-C8 and AM-C3 can be used for conversion of UART communication to either USB or RS232. ⁸ TTL digital modulation up to 10 MHz.

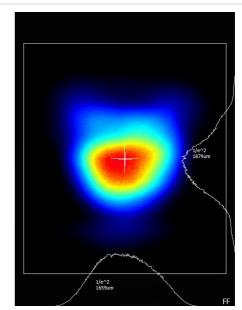
⁹Excluding control interface pins and an output window/fiber assembly.

¹⁰ This function can be enabled in hardware only if the fast modulation option is disabled. The customer must specify this before ordering the laser.

¹¹ 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.

TYPICAL FAR FIELD



Typical far field (1 m from output aperture) beam profile. Non-circularized beam of a 0660 nm direct diode laser.

DRAWING

