

Data Sheet

660nm 50mW Line-Laser Moudle

Dogain Optoelectronic Technology(Suzhou)Co.,Ltd

PN: DG-VP-A660-50BL3D300

Rev. 1.0

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Note:Customers represent that they have all the necessary expertise to createand implement their own safeguards that anticipate dangerous failures, monitor failures and their consequences,lessen the likelihood of dangerous failures and take appropriate remedial actions.

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Revision History			
Rev.	Effective Date	Revised By.	The Main Contents Revised.
1.0	2026. 2.1	马玉梅	Initial version released

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Product Introduction

Performance characteristics

- **High output power** : Output optical power is 50mW on CW with heatsink temperature 25°C.
- **The wavelength** :660nm
- **Other wavelengths, chip dimensions, and emitter patterns** are available according to customer request.

Application scenarios

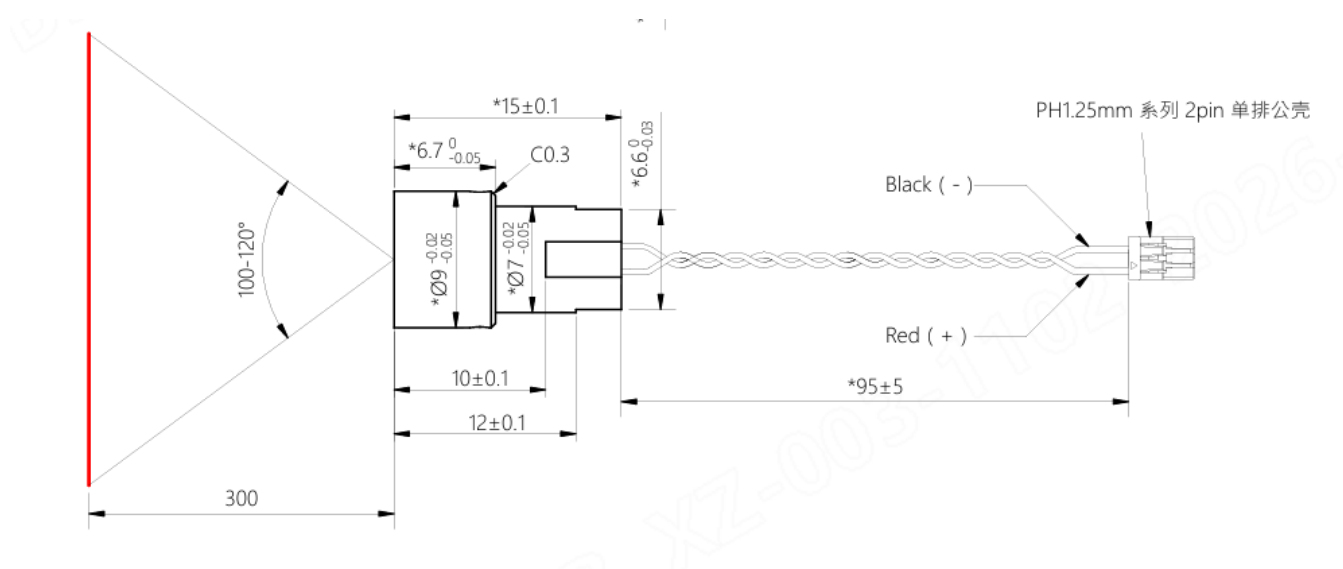
- Medical Beauty
- Consumer electronics

Electro-optical characteristics (25°C)

Parameters	Symbol	Min	Typical	Max	Units	Test Condition
Optical Output Power	P _{OP}		50	-	mW	CW 25°C
Operating Current	I _{op}	-	-	170	mA	CW Pop 25°C
Operating Voltage	V _{op}	-	2.3	2.7	V	CW Pop 25°C
Wavelength	λ _{peak}	655	660	665	nm	CW Pop 25°C
Beam Full Divergence	φ	100	110	120	°	CW Pop 25°C
Line width				3	mm	@300mm

* All tests are under pulse condition on CW. with heatsink temperature 25°C

Product Dimension(units:mm)



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Absolute Maximum Ratings

Parameter	Symbol	Min.	Max.	Units
Operating temperature	Top	-10	50	°C
Operating humidity	Hop	0	85	%
Storage temperature	Ts	-40	85	°C
Storage humidity	Hs	0	85	%

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Eye safety and disclaimer

Security recommendations

Depending on the usage of the device, the module may emit highly concentrated invisible infrared light that is harmful to the human eye. Products containing these modules may be required to follow the safety precautions specified in IEC 60850-1 and IEC62471.

Product Disclaimer

Suzhou DoGain Laser Co., Ltd. and its employees shall not be liable for any errors, inaccuracies or incompleteness contained in any data sheet or any product-related information.

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Note:

No responsibility is assumed for the use of these products. The products can emit Class I~IV radiation and must be operated with extreme care. Avoid directly viewing the laser beam or exposure to specular reflections. Proper eye wear must be worn at all times when operating. VCSEL Chip in the modules are electrostatic-sensitive device and proper ESD protection is required for handline.



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