



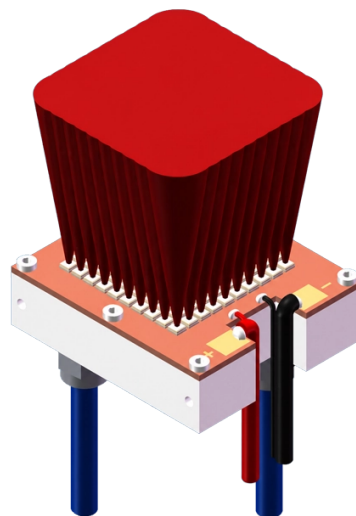
DOMI Co., Ltd.

domisensor.com

DMP200W
LASER Product Specification

Features:

- High Power VCSEL
- Peak Wavelength 980nm
- Water Cooling Package



Applications:

- Medical Cosmetology
- LASER Heating
- Surface Process



Work Conditions

Parameter	Symbol	Values
Operation temperature ¹	T _{OPR}	15°C to 40°C
Storage temperature	T _{stg}	5°C to 85°C
Cooling Water temperature	T _w	15°C to 25°C
Cooling Water Flow Rate	WFR	≥10 L/min

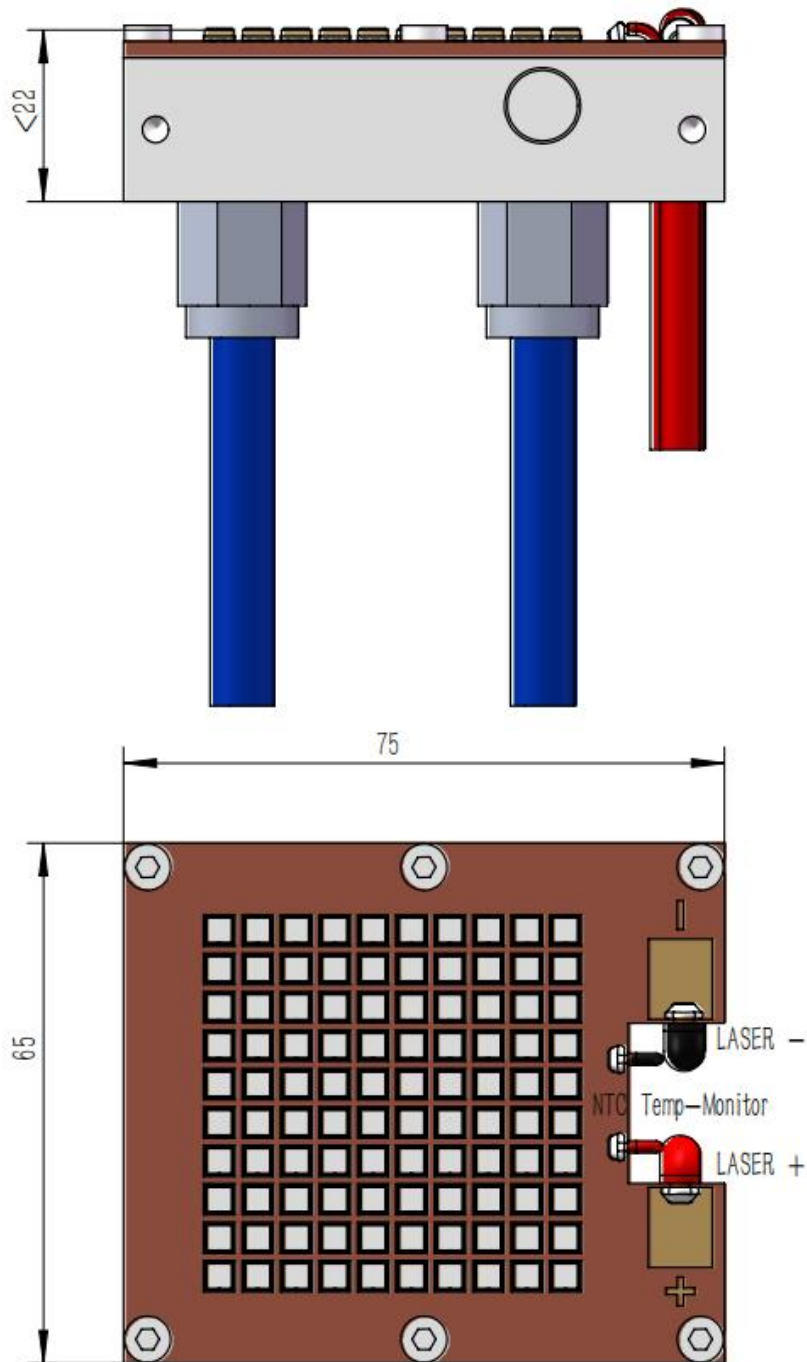
Note: 1. Environment Temperature

Electro-optical characteristics (Tc = 25°C)						
Parameter	Symbol	Test Condition	Min	Typ	Max	Unit
Threshold Current	I _{th}	-	-	2.4	4	A
Laser Irradiation Area	A	Distance @10cm		6.5*6.5		cm
Laser Irradiation Area	A	Distance @6cm		6*6		cm
Operating Current 1	I _{op}	Po=200W,CW	-	20	24	A
Operating Voltage 1	V _{op}	Po=200W,CW	-	45	50	V
Laser Power Intensity 1	Pi _{op}	Po=200W,CW	-	4	5	W/cm ²
Operating Current 2	I _{op}	Po=30W,CW	-	8	10	A
Operating Voltage 2	V _{op}	Po=30W,CW	-	42	46	V
Laser Power Intensity 2	Pi _{op}	Po=30W,CW	-	1	1.4	W/cm ²

Monitor Functions

Function	Parameter	Values
NTC Temperature Monitoring	B Value	3930K

Outlines



Note: Unit: mm, Unmarked tolerances: $\pm 0.2\text{mm}$,

Other Caution:

- LASER is very sensitive to Electrostatic discharge (ESD) and Electrical overstress (EOS), excessive ESD/EOS have damage the chip and result in performance degradation. Please make sure during the whole usage and installation process does not exist to affect the LASER.
- LASER can also be damaged by electrical surge, please make sure any driving electrical circuits are equipped with surge protection.
- During the installation process, please make sure all the equipment and personnel are grounded properly and production environment should make use of ion-blowers, ESD protection equipment such as anti-static gloves, anti-static wrist bands, anti-static mats, anti-static clothes, anti-static shoes and anti-static containers.

