

### ■ Features

- Stack module
- High optical power: CW 80 W / bar
- High stability
- Long life
- Compact

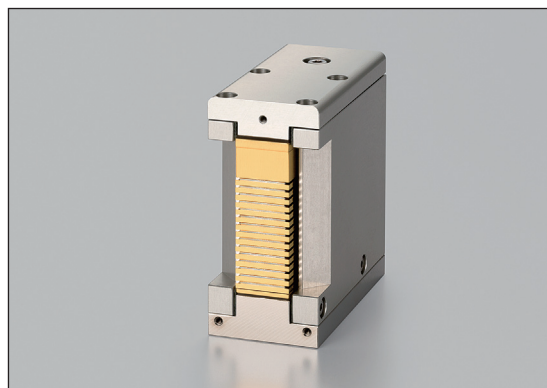
### ■ Applications

- Measuring instrument
- Pumping source for solid state laser
- IR illumination for surveillance
- Heat treatment

### ■ Option

Possible to attach a fast axis collimation (FAC) lens

- Beam spread angle (fast axis) 1 ° (typ)
- Coupling efficiency > 95 °



### ■ Specifications

[Temperature of coolant (IN): 20 °C, Flow rate: 4.0 L/min]

Parameter	Symbol	Conditions	Value	Unit
Central emission wavelength	$\lambda_c$	$\Phi_e = 1.2$ kW	$940 \pm 5$	nm
Spectral half-width	$\Delta\lambda$	$\Phi_e = 1.2$ kW, FWHM	4	nm
Radiant output power	$\Phi_e$	$I_f = 83$ A	1.2	kW
Operating voltage	$V_{op}$	$\Phi_e = 1.2$ kW	24	V
Beam spread angle	Horizontal (Slow)	Pulsed measurement <sup>*1)</sup> , FWHM	<11	° (degree)
	Vertical (Fast)		<36	
Lasing threshold current	$I_{th}$	—	12	A

\*1)  $I_{fp} = 80$  A,  $t_w = 100$   $\mu$ s,  $f_r = 100$  Hz

\* Max. No. of stack 32

\* Stack pitch 1.58 mm

### ■ Cooling conditions and surroundings

Parameter	Description / Value	Unit
Coolant	Deionized water	—
Temperature range of coolant	+15 to +30	°C
Flow rate	4.0	L/min
Water pressure	<0.4	MPa

# CW Laser Diode Bar Module L11408-15-940

Figure1: Radiant output power vs. Forward current (typ.)

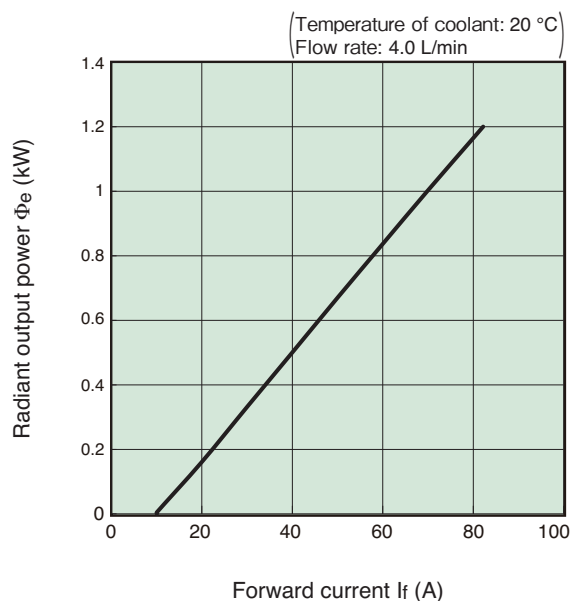


Figure2: Typical emission spectrum

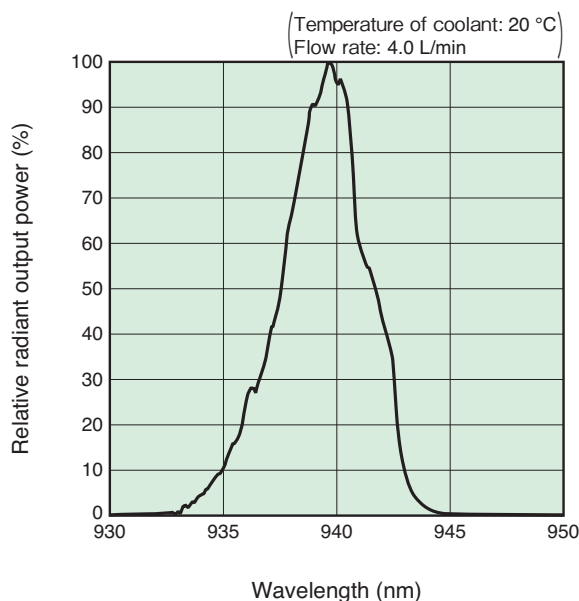
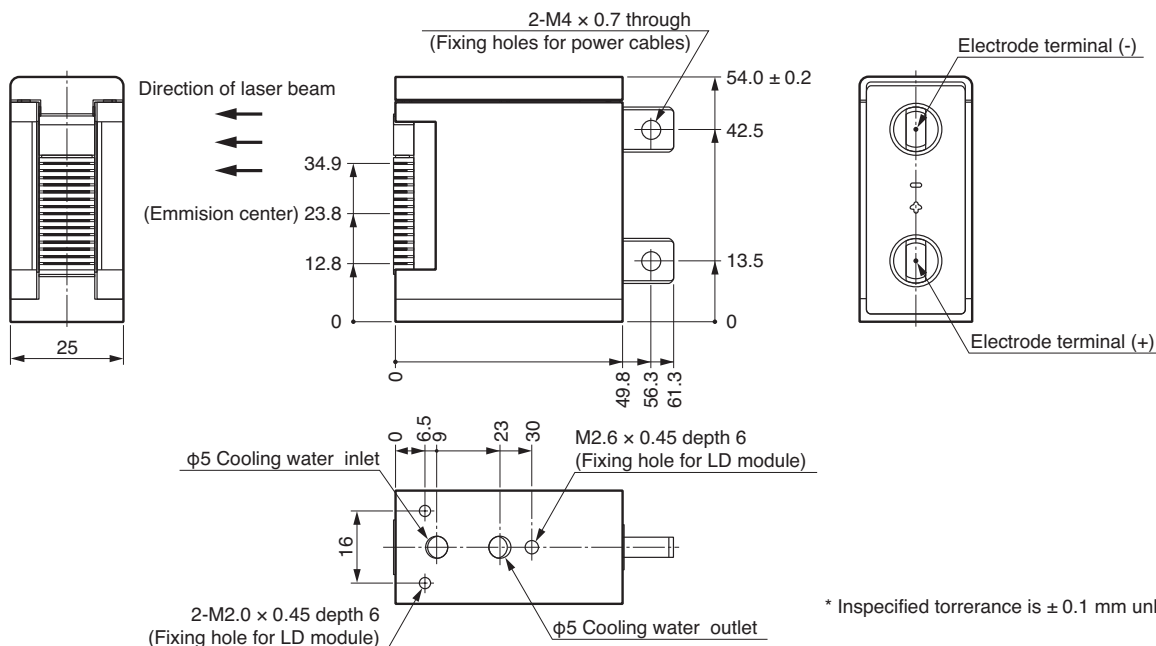


Figure3: Dimensional outline (unit: mm)



- When using laser products, classify the laser products in accordance with IEC 60825-1. Take adequate for classification.
- Observe the latest regulations and standards of each country and region.

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