

635nm 5W Fiber Coupled Diode Laser

RPK635-WD-5.000W-10522-SM

Features:

- 635nm wavelength
- 5W output power
- 105µm fiber core diameter
- 0.22NA

Applications:

- Aiming beam
- Medical use
- Scientific research

Specifications(25℃)		Symbol	Unit	RPK635-WD-5.000W-10522-SM		
				Minimum	Typical	Maximum
Optical Data ⁽¹⁾	CW Output Power	Po	w	5	-	-
	Center Wavelength	λα	nm	635±5		
	Spectral Width(FWHM)	Δλ	nm	-	3	-
	Wavelength Shift with Temperature	Δλ/ΔΤ	nm/℃	-	0.3	-
Electrical Data	Electrical-to-Optical Efficiency	PE	%	25	-	-
	Threshold Current	Ith	A	-	0.13	-
	Operating Current	lop	A	-	-	0.8
	Operating Voltage	Vop	V	-	-	30
	Slope Efficiency	η	W/A	-	9	-
Fiber Data	Core Diameter	D _{core}	μm	-	105	-
	Cladding Diameter	D _{clad}	μm	-	125	-
	Numeric Aperture	NA	-	-	0.22	-
	Fiber Length	Lí	m	-	1	-
	Fiber Loose Tubing Diameter	-	mm	0.9mm PVC		
	Minimum Bending Radius	-	mm	50	-	-
	Fiber Termination	-	-	Ferrule		
PD	-	Imo	μA	50		500
Others	ESD	V _{esd}	V	-	-	500
	Storage Temperature ⁽²⁾	T _{st}	°C	-20	-	70
	Lead Soldering Temp	T _{ls}	°C	-	-	260
	Lead Soldering Time	t	sec	-	-	10
	Operating Case Temperature ⁽³⁾	T _{op}	°C	15	-	35
	Relative Humidity	RH	%	15	-	75

(1) Data measured under operation output at 5W@25°C.

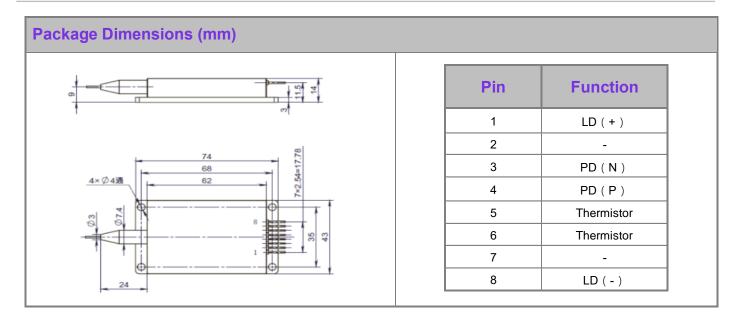
(2) A non-condensing environment is required for operation and storage.

(3) Operating temperature defined by the package case. Acceptable operating range is 15°C~35°C, but performance may vary.



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OPERATING NOTES

- Avoid eye and skin exposure to direct radiation during operation.
- ESD precautions must be taken during storage, transportation and operation.
- Short-circuit is required between pins during storage and transportation.
- Please connect pins to wires by solder instead of using socket when operation current is higher than 6A. Soldering point should be close to the middle of the pins. Soldering temperature should be lower than 260°C and time shorter than 10 second.
- Make sure the fiber output end is properly cleaned before operation of laser. Follow safety protocols to avoid injury when handling and cutting the fiber.
- Use constant current power supply to avoid surge current during operation.
- Laser diode must be used according to the specifications.
- Laser diode must work with good cooling.
- \blacklozenge Operation temperature ranges from 15 $^\circ\!\!\mathbb{C}$ to 35 $^\circ\!\!\mathbb{C}$.
- Storage temperature ranges from -20° to $+70^{\circ}$.



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