

Features:

- 808nm wavelength
- 4W output power
- 200µm fiber core diameter
- 0.22 NA
- Additional Functions:
 - Aiming beam

Fiber & Power monitor

Thermistor

Applications:

Medical use

808nm 4W Multi-Function Detachable Diode Laser RPK808-11-4.000W-20022-SM

Specifications(25℃)		Symbol	Unit	RPK808-11-4.000W-20022-SM		
				Minimum	Typical	Maximum
Optical Data ⁽¹⁾	CW Output Power	Po	W	4	-	-
	Center Wavelength	λς	nm	808±10		
	Wavelength Shift with Temperature	Δλ/ΔΤ	nm/℃	-	0.3	-
Electrical Data	Electrical-to-Optical Efficiency	PE	%	-	45	-
	Threshold Current	Ith	A		1.5	
	Operating Current	l _{op}	А	-	5.5	6
	Operating Voltage	V _{op}	V	-	1.8	2
	Slope Efficiency	η	W/A	-	1.0	-
Fiber Data	Core Diameter	D _{core}	μm	-	200	-
	Numeric Aperture	NA	-	-	0.22	-
	Fiber Connector	-	-	SMA905		
Thermistor	-	Rt	(K Ω)/(25℃)	-	10±3%	-
PD	-	PD	μA	100	-	2000
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
Aiming Beam	Output Power	Pa	W	2	-	-
	Wavelength	λa	nm	635±10		
	Voltage	Va	V	-	2.3	2.6
	Current	la	А	-	45	65

(1) Data measured under operation output at 4W@25°C.

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

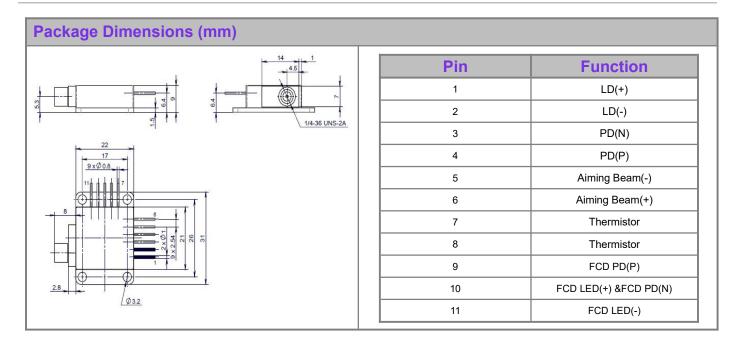
(3) Operating temperature defined by the package case. Acceptable operating range is 15°C~35°C, but performance may vary.





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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.

to the middle of the pins. Soldering temperature should be lower than 260°C and time shorter than 10 second. cutting the fiber.

- Laser diode must work with good cooling.
- Operation temperature ranges from 15°C to 35°C.
- Storage temperature ranges from -20°C to +70°C.



Declaration: information and specifications contained herein are deemed to be reliable and accurate. BWT Beijing reserves the right to change, alter or modify the design and specifications of these products at any time without notice.24-1