



Features:

- 808nm wavelength
- 8W output power
- 105µm fiber core diameter
- 0.22 NA
- 1020nm~1200nm feedback protection

Applications:

- Solid-state laser pumping
- Medical application
- Material processing

808nm 8W Fiber Coupled Diode Laser RPK808-B2-8.000W-20022-SM

Specifications (25°C)		Symbol	Unit	RPK808-B2-8.000W-20022-SM		
				Minimum	Typical	Maximum
Optical Data ₍₁₎	CW Output Power	Po	W	8	-	-
	Center Wavelength	λς	nm	808±3		
	Spectral Width(FWHM)	Δλ	nm	-	6	-
	Wavelength Shift with Temperature	$\triangle \lambda / \triangle T$	nm/°C	-	0. 3	-
Electrical Data	Electrical-to-Optical Efficiency	PE	%	-	46	-
	Threshold Current	Ith	А	-	1.8	-
	Operating Current	Гор	А	-	9	11
	Operating Voltage	Vop	V	-	-	2
	Slope Efficiency	η	W/A	-	1	-
Fiber Data	Core Diameter	Dcore	μm	-	105	-
	Cladding Diameter	D _{clad}	μm	-	125	-
	Numeric Aperture	NA	-	-	0.22	-
	Fiber Length	Lf	m	-	1.0	-
	Fiber Loose Tubing Diameter	-	mm	-	0.9	-
	Minimum Bending Radius	-	mm	50	-	-
	Fiber Termination	-	-	SMA905		
Feedback	Wavelength Range	-	nm	1020~1200		
Isolation	Isolation	-	dB	-	30	-
Others	ESD	Vesd	V	-	-	500
	Storage Temperature ⁽²⁾	Tst	℃	-20	-	70
	Lead Soldering Temp	Tis	℃	-	-	260
	Lead Soldering Time	t	sec	-	-	10
	Operating Case Temperature ⁽³⁾	Тор	℃	15	-	35
	Relative Humidity	RH	%	15	-	75

⁽¹⁾ Data measured under operation output a 8W@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.



808nm 8W Fiber Coupled Diode Laser

RPK808-B2-8.000W-20022-SM

Pin Function 1 LD (+) 2 LD (-)

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℃ 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.
- ♦ Storage temperature ranges from -20 $^{\circ}$ C to +70 $^{\circ}$ C.



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