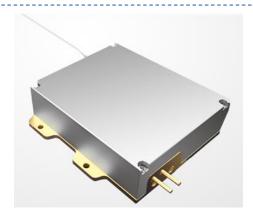
www.rpmclasers.com

915nm 160W High Power Fiber Coupled Diode Laser

RPK915-N1-160.0W-10522-FF (Customized Product)



Features:

- 915nm wavelength
- 160W output power
- 106.5µm fiber core diameter
- 0.22NA
- 1020nm~1200nm feedback protection

Applications:

Fiber laser pumping

Specifications(25℃)		Symbol	Unit	RPK915-N1-160.0W-10522-FF		
				Minimum	Typical	Maximum
Optical Data ⁽¹⁾	CW Output Power	Po	W	160	-	-
	Center Wavelength	λο	nm	915±10		
	Spectral Width (FWHM)	Δλ	nm	6		
	Wavelength Shift with Temperature	Δλ/ΔΤ	nm/℃	-	0.3	-
	Wavelength Shift with Current	$\triangle \lambda / \triangle A$	nm/A	-	1	-
	Spot ratio 0.15/0.22	NA	%	-	95	-
Electrical Data	Electrical-to-Optical Efficiency	PE	%	-	44	-
	Operating Current	lop	Α	-	-	15
	Threshold Current	Ith	Α	-	0.6	-
	Operating Voltage	V _{op}	V	-	-	29
	Slope Efficiency	η	W/A	-	12	-
Fiber Data	Core Diameter	D _{core}	μm	-	106.5	-
	Cladding Diameter	D _{clad}	μm	-	125	-
	Numerical Aperture	NA	-	-	0.22	-
	Total Fiber Length	Lf	m	-	2.0	-
	Fiber Loose Tubing Diameter	- 1	mm	0.9mm PTFE		
	Minimum Bending Radius	-	mm	50	-	-
	Fiber termination	- 1	-	-	None	-
Feedback Isolation	Wavelength Range	λ	nm	1020~1200		
	Isolation	-	dB	-	30	-
Others	ESD	V _{esd}	V	-	-	500
	Storage Temperature (2)	T _{st}	°C	-20		70
	Lead Soldering Temp	T _{Is}	°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 160W@25°C.

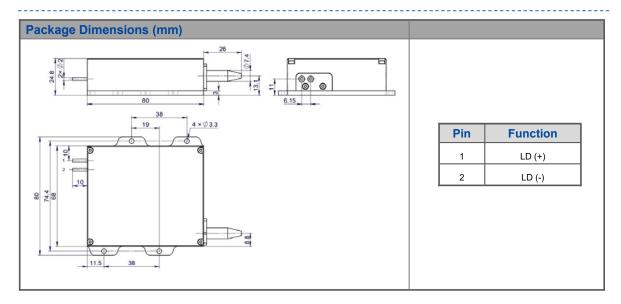
⁽²⁾ A non-condensing environment is required for operation and storage.

⁽³⁾ Operating temperature defined by the package case. Acceptable operating range is $15^{\circ}\text{C}-35^{\circ}\text{C}$, 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.
- $\ \, \blacklozenge$ 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 root 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.
- ◆ Operation temperature ranges from 15°C to 35°C .
- \blacklozenge Storage temperature ranges from -20°C to +70°C .