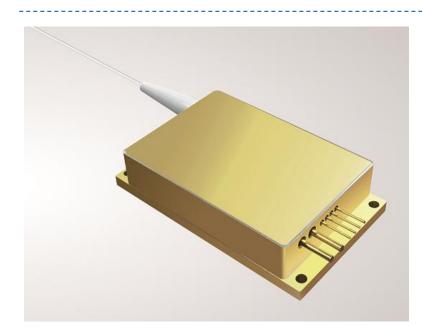


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793nm 30W Fiber Coupled Diode Laser

K793DA5RN-30.00W



Features:

- 793nm wavelength
- 30W output power
- 105µm fiber core diameter
- 0.22NA
- 1900nm-2100nm feedback protection

Applications:

• Fiber laser pumping

BWT Beijing's High Power Diode Laser Modules are manufactured by adopting specialized fiber-coupling techniques, resulting in volume products with a high efficiency, stability and superior beam quality. The products are achieved by transforming the asymmetric radiation from the laser diode chip into an output fiber with small core diameter by using special micro optics. Inspecting and burn-in procedures in every aspect come to a result to guarantee each product with the reliability, stability and long lifetime.

Our research staffs are constantly improving and innovating the processing technology in the producing process, based on the professional knowledge and experience accumulated in long-terms. We are also continuously developing new products to meet customers' specific needs.

At BWT Beijing, to provide high quality products with reasonable price is always our goal.





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Specifications(25℃)		Symbol	Unit	K793DA5RN-30.00W		
				Minimum	Typical	Maximum
Optical Data ⁽¹⁾	CW Output Power	Po	W	30	-	-
	Center Wavelength	λα	nm	793±3		
	Spectral Width (FWHM)	Δλ	nm	6		
	Wavelength Shift with Temperature	∆λ/∆Τ	nm/℃	-	0.3	-
	Wavelength Shift with Current	$\triangle \lambda / \triangle A$	nm/A	-	1	-
Electrical Data	Electrical-to-Optical Efficiency	PE	%	-	45	-
	Operating Current	l _{op}	А	-	-	5.5
	Threshold Current	lth	А	-	1	-
	Operating Voltage	Vop	V	-	-	16
	Slope Efficiency	η	W/A	-	7	-
Fiber Data	Core Diameter	D _{core}	μm	-	105	-
	Cladding Diameter	D _{clad}	μm	-	125	-
	Numerical Aperture	NA	-	-	0.22	-
	Total Fiber Length	Lf	m	-	1.0	-
	Fiber Loose Tubing Diameter	-	mm	0.9mm PTFE		
	Minimum Bending Radius	-	mm	50	-	-
	Fiber termination	-	-	-	None	-
Feedback Isolation	Wavelength Range	λ	nm	1900~2100		
	Isolation	-	dB	-	30	-
Others	ESD	V _{esd}	V	-	-	500
	Storage Temperature ⁽²⁾	T _{st}	°C	-20		70
	Lead Soldering Temp	Tis	°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 80W@25°C.

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

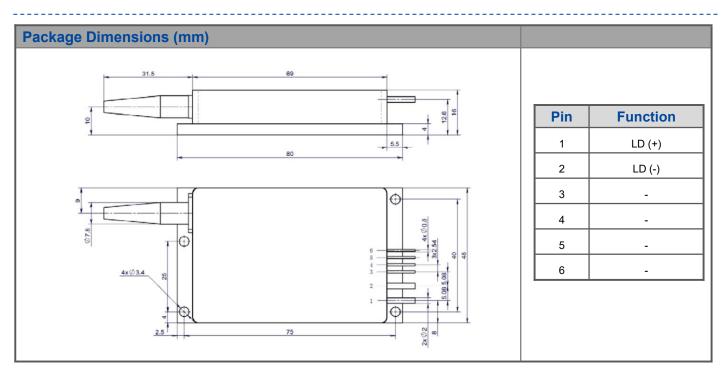
(3) Operating temperature defined by the package case. Acceptable operating range is 15°C~35°C, but performance may vary.



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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 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 .
- ♦ 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.19-1

