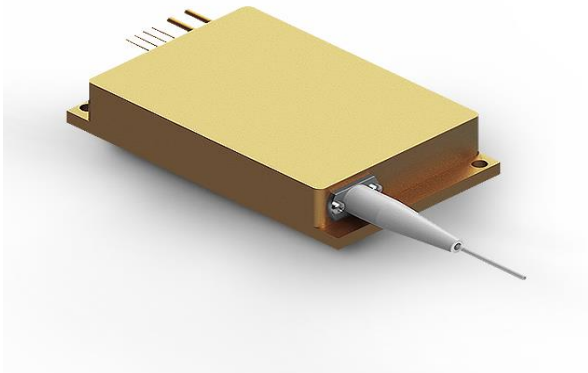


793nm 50W Fiber Coupled Diode Laser

K793DA5RN-50.00WN0N-10522F20EFF (Standard Product)



Features :

- ◆ 793nm wavelength
- ◆ 50W output power
- ◆ 105 μ m fiber core diameter
- ◆ 0.22NA
- ◆ 1900nm~2100nm feedback protection

Applications :

- ◆ Fiber laser pumping
- ◆ Scientific research

BWT, founded in 2003, is committed to the mission of "let the dream drive the light", the vision of becoming the "Global leader in laser solutions", and the value of "Outstanding innovation", providing diode laser, fiber laser, ultra-fast laser products and solutions to global customers.

The company pursues continuous innovation and insists on autonomous and controllable advanced process and technology. With Beijing headquarters as the core, BWT has successively established production and R&D centers in Jiangsu, Shanghai and Shenzhen, and invested in the construction of intelligent and digital production base in Tianjin. In order to build the world's highest level of technical strength and product quality, BWT set up a German subsidiary in 2020, introducing European quality standards, and taking a solid step for the internationalization of R&D, production and technological innovation.

Up to now, BWT has traded more than 10 million lasers worldwide. BWT's products are available in more than 70 countries and regions, applications involving industry, medical, commercial, scientific research, information and many other fields.

Version number	Change content	Change date
00	First edition	2021.09.17

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Specifications (25°C)		Symbol	Unit	K793DA5RN-50.00W		
				Minimum	Typical	Maximum
Optical Data ⁽¹⁾	CW Output Power	P_o	W	50	-	-
	Center Wavelength	λ_c	nm	793±3		
	Spectral Width(FWHM)	$\Delta\lambda$	nm	-	3	5
	Wavelength Shift with Temperature	$\Delta\lambda/\Delta T$	nm/°C	-	0.3	-
	0.18/0.22NA	-	%	-	90	-
Electrical Data	Electrical-to-Optical Efficiency	PE	%	-	38	-
	Threshold Current	I_{th}	A	-	1.6	-
	Operating Current	I_{op}	A	-	11	12.5
	Operating Voltage	V_{op}	V	-	10.8	11.5
	Slope Efficiency	η	W/A	-	5.3	-
Fiber Data	Core Diameter	D_{core}	μm	-	105	-
	Cladding Diameter	D_{clad}	μm	-	125	-
	Numeric Aperture	NA	-	-	0.22	-
	Fiber Length	L_f	m	-	2	-
	Fiber Loose Tubing Diameter	-	mm	0.9		
	Minimum Bending Radius	-	mm	50	-	-
	Fiber Termination	-	-	Ferrule		
Feedback Isolation	Wavelength Range	-	nm	1900~2100		
	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	20	-	30
	Relative Humidity	RH	%	15	-	75

(1) Data measured under operation output at 50W@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 20°C~30°C, but performance may vary.

