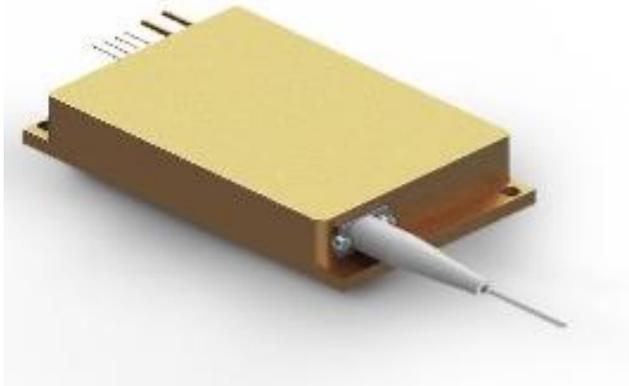


## 793nm 30W Fiber Coupled Laser Diode

K793DA5RN-30.00WN0N-10522F10EFF (Standard Product)



### Features:

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

### Applications:

- Fiber laser pumping
- Scientific research

Specifications	25°C	Symbol	Unit	K793DA5RN-30.00W		
				Minimum	Typical	Maximum
Optical Data <sup>(1)</sup>	CW Output Power	$P_o$	W	30	-	-
	Center Wavelength	$\lambda_c$	nm	793±3		
	Spectral Width (FWHM)	$\Delta\lambda$	nm	-	3	5
	Wavelength Shift with Temperature	$\Delta\lambda/\Delta T$	nm/°C	-	0.3	-
	0.15/0.22NA	-	%	85	90	-
Electrical Data	Electrical-to-Optical Efficiency	PE	%	-	42	-
	Threshold Current	$I_{th}$	A	-	10	12
	Operating Current	$I_{op}$	A	-	1.6	-
	Operating Voltage	$V_{op}$	V	-	7.2	8
	Slope Efficiency	$\eta$	W/A	-	3.6	-
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 <sup>(2)</sup>	$T_{st}$	°C	-20	-	70
	Lead Soldering Temp	$T_{is}$	°C	-	-	260
	Lead Soldering Time	t	sec	-	-	10
	Operating Case Temperature <sup>(3)</sup>	$T_{op}$	°C	20	-	30
	Relative Humidity	RH	%	15	-	75

(1) Data measured under operation output at 30W@25°C.

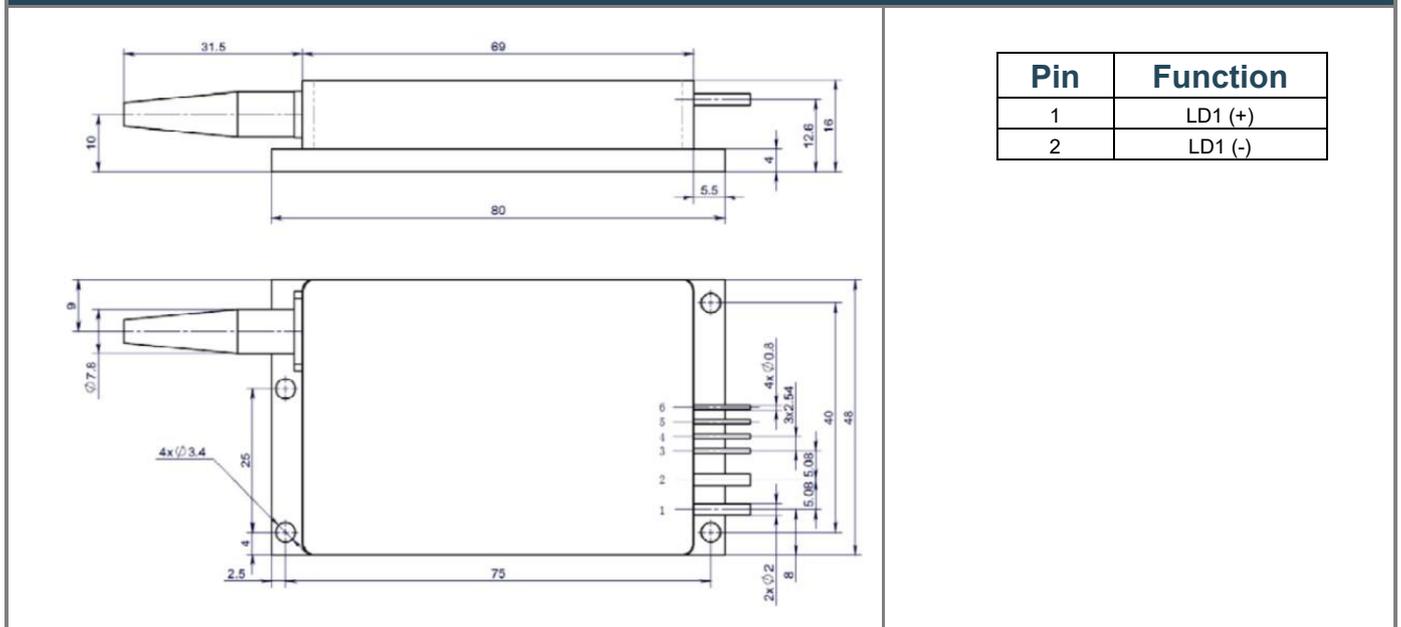
(2) A non-condensing environment is required for operation and storage.

(3) Operating temperature defined by the package case. Acceptable operating range is 20°C to 30°C, but performance may vary.

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### Package Dimensions (mm)



### 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°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 20°C to 30°C.
- Storage temperature ranges from -20°C to +70°C.