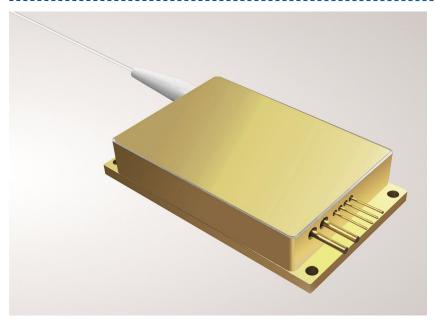


808nm55W High Power Diode Laser

K808DA5RN-55.00W (Standard Product)



Features:

- 808nm wavelength
- 55W output power
- 400µm fiber core diameter
- 0.22 N.A.

Applications:

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

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 our always goal.



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Specifications (25℃)		Symbol	Unit	K808DA5RN-55.00W		
				Minimu m	Typical	Maximu m
Parameter ⁽¹⁾	CW Output Power	РО	W	55	-	-
	Threshold current	Ith	А	-	1.8	-
	Operating current	lop	А	-	-	11
	Operating voltage	Vop	V	-	-	14
	Reverse Voltage	Vre	V	-	17.5	-
	Slope Efficiency	η	W/A	-	7.4	-
	Electrical-to-Optical Efficiency	PE	%	-	48	-
	Center wavelength	Λc	nm	805	-	811
	Spectral width(FWHM)	Δ٨	nm	-	5	-
	Back reflection wavelength Range	λ	nm	1040	-	1200
	Back reflection isolation	-	dB	-	30	-
	Wavelength Shift with Temperature	-	nm/℃	-	0.3	-
	Wavelength Shift with Current	-	nm/A	-	1	-
Fiber Data	Buffer diameter	Dbuf	μm	-	730	-
	Cladding diameter	Dclad	μm	-	440	-
	Core diameter	Dcore	μm	-	400	-
	Numeric aperture	NA	NA		0.22	-
	Fiber length (2)	lc	m	1.4	1.5	1.6
	Connector (3)	-	-	-	SMA905	-
	Fiber jacket ⁽⁴⁾	-	-	-	3.0mmPVC	-
	Fiber Bend Radius	-	mm	-	140	-
Thermistor	-	Rt	(K Ω)/β(25℃)	-	10±3%/3477	-
Others	ESD	-	V	-	-	500
	Storage temperature	-	℃	-20	-	70
	Lead Soldering Temp	Tis	℃	-	-	260
	Lead Soldering Time	Tis	sec	-	-	10
	Operating case temperature ⁽⁵⁾	Тор	°C	15	-	35
	Relative Humidity	-	%	15	-	75

⁽¹⁾ Data measured under operation output at 55W.

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⁽²⁾ Other length available upon request.

⁽³⁾ Other connector available upon request.

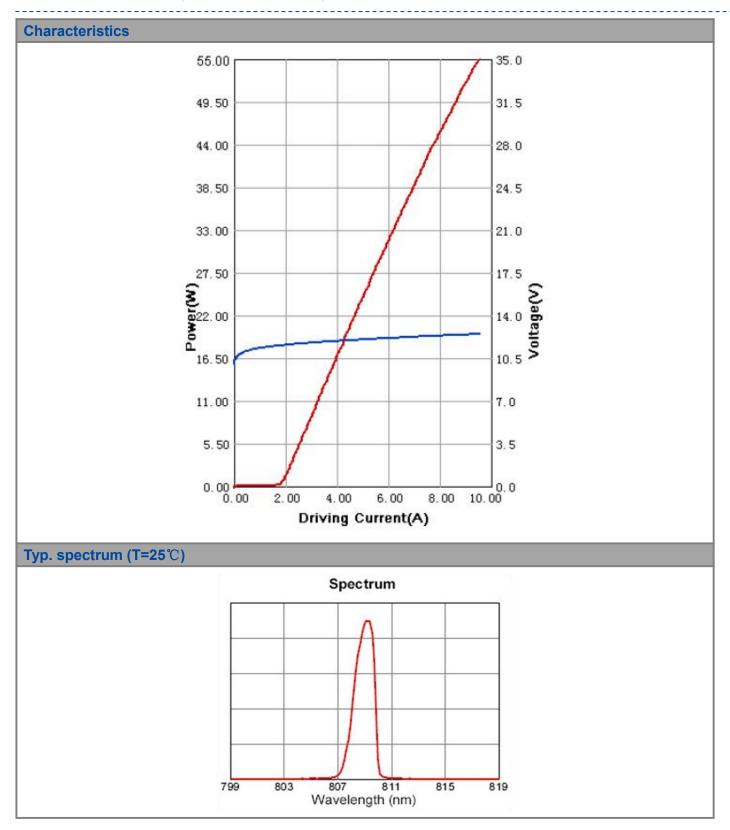
⁽⁴⁾ Other fiber jacket available upon request.

⁽⁵⁾ Operating temperature defined by the package case. Acceptable operating range is 15 - 35C, but performance may vary.



808nm55W High Power Diode Laser

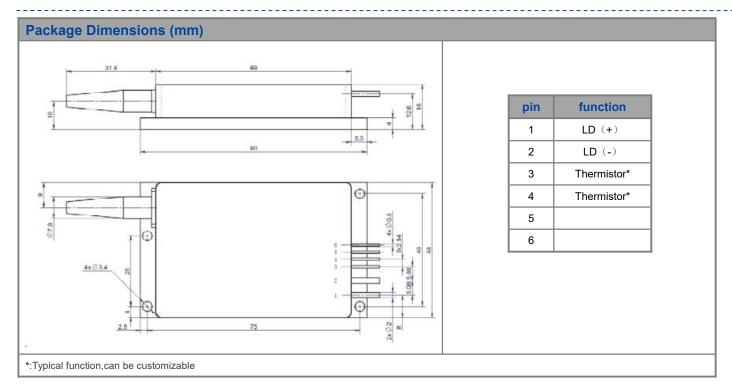
K808DA5RN-55.00W (Standard Product)





808nm55W High Power Diode Laser

K808DA5RN-55.00W (Standard Product)



OPERATING NOTES

- ◆ Avoid eye exposure to direct or scattered radiation.
- ◆ ESD precautions must be taken.
- ◆ 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.
- ◆ Use constant current power supply. Avoid surge current.
- ◆ Laser diode must be used according to the specifications.
- ◆ Laser diode must work with good cooling.
- ◆ A minimum bend radius should be 300 times greater than the fiber cladding diameter, dynamic bend radius should be 400 times greater than the fiber cladding diameter.
- ♦ Storage: -20°C~ +70°C, all pins short-circuit.





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.18-1