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808nm 55W High Power Diode Laser

K808DA5RN-55.00W



Features:

- 808nm wavelength
- 55W output power
- 200µm 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°C)		Symbol	Unit	K808DA5RN-50.00W		
				Minimum	Typical	Maximum
Parameter ⁽¹⁾	CW Output Power	Po	W	55	-	-
	Threshold current	Ith	Α	-	1.4	-
	Operating current	lop	А	-	-	9.5
	Operating voltage	Vop	V	-	-	18
	Reverse Voltage	Vre	V	-	22.5	-
	Slope Efficiency	η	W/A	-	9	-
	Electrical-to-Optical Efficiency	PE	%	40	-	-
	Center wavelength	Ic	nm	805	-	811
	Spectral width(FWHM)	ΔΙ	nm	-	5	-
	Back reflection wavelength Range	λ	nm	1040	-	1200
	Back reflection isolation	-	dB	-	30	-
	Wavelength Shift with Temperature	-	nm/℃	-	0.3	-
	Life Time	MTTF	Н	-	10000	-
Fiber Data ⁽²⁾	Buffer diameter	Dbuf	μm	-	400	-
	Cladding diameter	Dclad	μm	-	220	-
	Core diameter	Dcore	μm	-	200	-
	Numeric aperture	NA	NA	-	0.22	-
	Fiber length (3)	lc	m	1.4	1.5	1.6
	Connector (4)	-	-	-	SMA905	-
	Fiber Bend Radius	-	mm	-	66	-
Others	ESD	-	V	-	-	500
	Storage temperature	-	$^{\circ}$	-20	-	70
	Lead Soldering Temp	Tis	$^{\circ}$	-	-	260
	Lead Soldering Time	Tis	sec	-	-	10
	Operating case temperature	Тор	$^{\circ}$	15	-	35
	Relative Humidity	-	%	15	-	75

⁽¹⁾ Data measured under operation output at 15W.

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⁽²⁾ Detachable diode laser is optional

⁽³⁾ Other length available upon request.

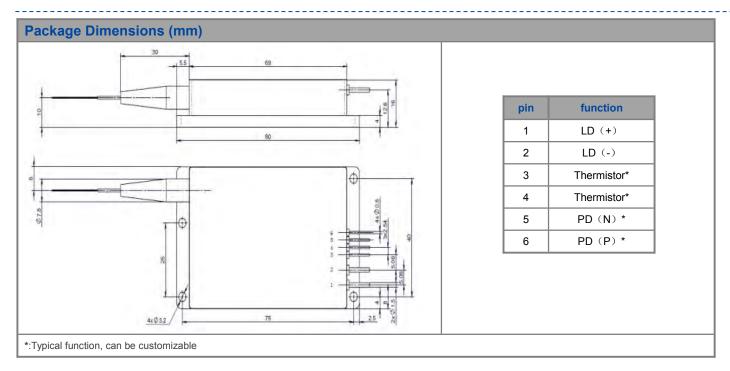
⁽⁴⁾ Other connector available upon request.



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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.
- ◆ 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.
- ♦ Operation temperature is 15° C ~ 35° C...
- ◆ 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.

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