HJ OPTRONICS

4055 Filan Way
San Jose, CA 95135
United States

793nm 12W Fiber Coupled Diode Laser HJ793DA3RN-12W

Model #: HJ793DA3RN-12W
Description: 793nm 12W Fiber Coupled Diode Laser
Features: 793 nm wavelength, 12W output power, 105 um fiber core, 0.22 N.A., 1900 – 2100 nm feedback protection.
Application: Fiber laser pumping, solid state laser pumping

Specifications:

Specifications(25□)		Symbol	Unit	HJ793DA3RN-12W		
				Minimum	Typical	Maximum
Parameter(1)	CW Output Power	P_O	W	12	-	-
	Threshold current	I_{th}	A	-	1	-
	Operating current	I_{op}	A	-	-	5.5
	Operating voltage	V_{op}	V	-	-	6
	Reverse Voltage	V_{re}	V	-	7.5	-
	Slope Efficiency	η	W/A	-	3	-
	Electrical-to-Optical Efficiency	PE	%	-	45	-
	Center wavelength	λ_c	nm	790	-	796
	Spectral width(FWHM)	δ_λ	nm	-	3	-
	Back reflection wavelength Range	λ	nm	1900	-	2100
	Back reflection isolation	-	dB	-	30	-
	Wavelength Shift with Temperature	-	nm/□	-	0.3	-
	Light within 0.15NA	-	%	-	90	-
Fiber Date	Buffer diameter	D_{buf}	μm	-	250	-
	Cladding diameter	D_{clad}	μm	-	125	-
	Core diameter	D_{core}	μm	-	105	-
	Numeric aperture	NA	-	-	0.22	-
	Fiber length(2)	l_f	m	-	1	-
	Fiber Bend Radius	-	mm	60	-	-
Others	ESD	V_{esd}	V	-	-	500
	Storage temperature	T_{stg}	□	-20	-	70
	Lead Soldering Temp	T_{ls}	□	-	-	260
	Lead Soldering Time	t	sec	-	-	10
	Operating case temperature (3)	T_{op}	□	15	-	35
	Relative Humidity	RH	%	15	-	75

(1) Data measured under operation output at 12W.
(2) Other length available upon request.
(3) Operating temperature defined by the package case. Acceptable operating range is 15 - 35C, but performance may vary.

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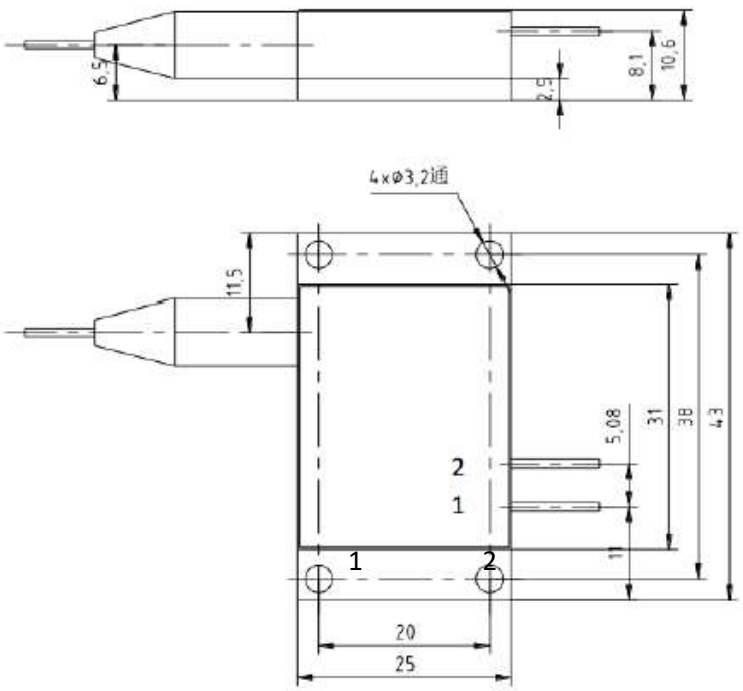
Package Dimensions (mm)



Pins	Function
1	LD (+)
2	LD (-)

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□ 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.
- Operation temperature is 15□~ 35□.
- Storage: -20□~ +70□, all pins short-circuit.