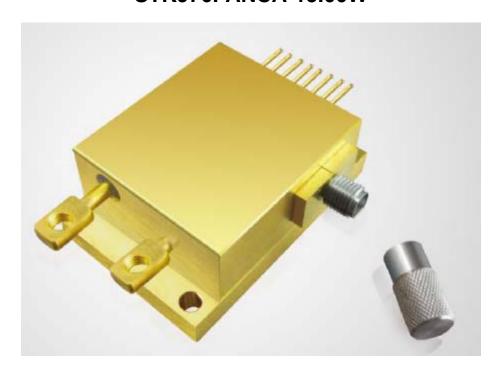


976nm 15W Multi-Function Detachable Diode Laser STK976FANCA-15.00W



Features:

15W output power 976nm wavelength Standard fiber coupling for 200µm/0.22NA

Customer options:

Aiming beam (Support 5V DC input.)
Power PD
Thermistor

Applications:

Medical use Material processing

Our 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.

To provide high quality products with reasonable price is our always goal.



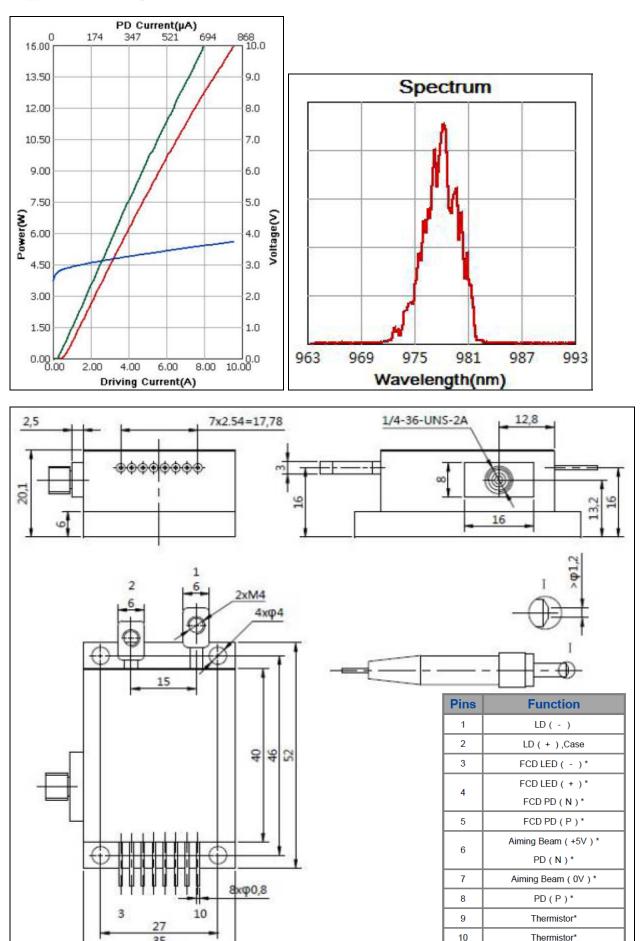
Specifications(25℃)		Symbol	Unit	STK976FANCA-15.00W		
				Minimum	Typical	Maximum
Parameter ⁽¹⁾	CW Output Power	Ро	W	15	-	-
	Threshold current	I _{th}	Α	-	1.0	-
	Operating current	lop	Α	ā	п	11
	Operating voltage	V _{op}	V	-	=	4
	Reverse Voltage	V _{re}	٧	-	5	-
	Slope Efficiency	η	W/A	-	1.6	-
	Electrical-to-Optical Efficiency	PE	%	40	5	-
	Center wavelength	λο	nm	966	5	986
	Spectral width(FWHM)	δλ	nm	-	6	-
	Wavelength Shift with Temperature	-	nm/°C	-	0.3	-
Fiber Data	Buffer diameter	D _{buf}	μm	-	400	-
	Cladding diameter	D _{clad}	μm	-	220	-
	Core diameter	D _{core}	μm	-	200	-
	Numeric aperture	NA	=	-	0.22	-
Others	ESD	V _{esd}	V	-	5	500
	Storage temperature	T _{stg}	°C	-20	ā	70
	Lead Soldering Temp	T _{Is}	°C	ū.	ū	260
	Lead Soldering Time	t	sec		U	10
	Operating case temperature	Тор	℃	15	е	35
	Relative Humidity	RH	%	15	2	75
PD Data	Current	I _{mo}	μА	200	ā	2000
Thermistor	-	Rt	(K Ω)/β(25°C)	2	10±3%/3477	2
Aiming Beam Data	Output Power	Pa	mW	-	2	-
	Wavelength	la	nm	630	-	643
	Voltage ⁽²⁾	Va	V	-	2.2	-
	Current	la	mA	-	45	65

- (1) Data measured under operation output at 15W.
- (2) Support 5V DC input

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 root of the pins. Soldering temperature should be lower than 260℃ 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 15[°]C to 35[°]C.
- Storage temperature ranges from -20℃ to +70℃.

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35

