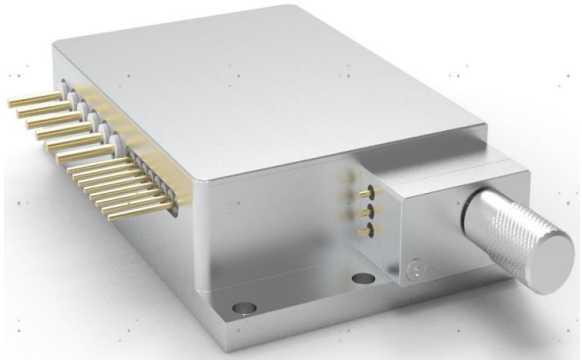
1940nm 10W Multi-Function Detachable Diode Laser

KJ40HA5CA-10.00WN1Y-40022N00NSM



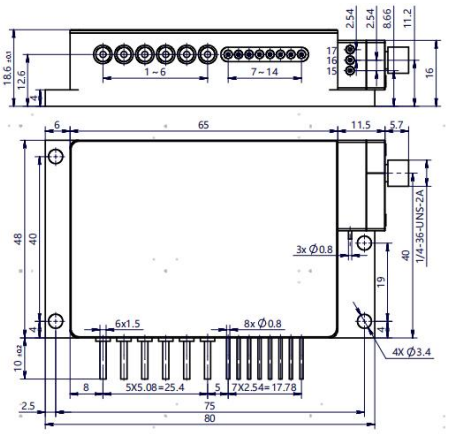
Features:

- 1940nm wavelength
- 10W output power
- 400 μm fiber core diameter
- 0.22 NA
- Additional Functions: Aiming beam 、Fiber monitor Thermistor、Replaceable window panel

Applications:

- Medical use

Package Dimensions (mm)



Pin	Function	Pin	Function
1	LD (+)	10	Thermistor
2	LD (-)	11	PD(P)
3	-	12	PD(N)
4	-	13	-
5	-	14	-
6	-	15	FCD PD (P)
7	Aiming Beam(+)	16	FCD LED(+)&FCDPD (N)
8	Aiming Beam(-)	17	FCD LED(-)
9	Thermistor		

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℃ 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.
- Laser diode must work with good cooling.
- Operation temperature ranges from 15℃ to 30℃ .
- Storage temperature ranges from -20℃ to +70℃.



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Specifications（25℃）		Symbol	Unit	KJ40HA5CA-10.00WN1Y-40022N00NSM		
				Minimum	Typical	Maximum
Optical Data(1)	CW Output Power	P_o	W	10	-	-
	Center Wavelength	λ_c	nm	1940±20		
	Wavelength Shift with Temperature	$\triangle\lambda/\triangle T$	nm/℃	-	0.3	-
Electrical Data	Electrical-to-Optical Efficiency	PE	%	-	15	-
	Threshold Current	I_{th}	A		1.0	
	Operating Current	I_{op}	A	-	7	10
	Operating Voltage	V_{op}	V	-	9.5	10.5
	Slope Efficiency	η	W/A	-	1.7	-
Fiber Data	Core Diameter	D_{core}	μm	-	400	-
	Numeric Aperture	NA	-	-	0.22	-
	Fiber Connector	-	-	SMA905		
Thermistor	-	Rt	(KΩ)/(25℃)	-	10±3%	-
Others	ESD	V_{esd}	V	-	-	500
	Storage Temperature(2)	T_{st}	℃	-20	-	70
	Lead Soldering Temp	T_{ls}	℃	-	-	260
	Lead Soldering Time	t	sec	-	-	10
	Operating Case Temperature(3)	T_{op}	℃	15	-	30
	Relative Humidity	RH	%	15	-	75
Aiming Beam	Output Power	P_a	mW	2	-	-
	Wavelength	λ_c	nm	635±10		
	Voltage	V_a	V	-	2.3	2.6
	Current	I_a	mA	-	45	65

(1) Data measured under operation output at 10W@25℃.

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

(3) Operating temperature defined by the package case. Acceptable operating range is 15℃~30℃, but performance may vary.

Declaration : information and specifications contained herein are deemed to be reliable and accurate. Hyperline reserves the right to change, alter or modify the design and specifications of these products at any time without notice.26-09