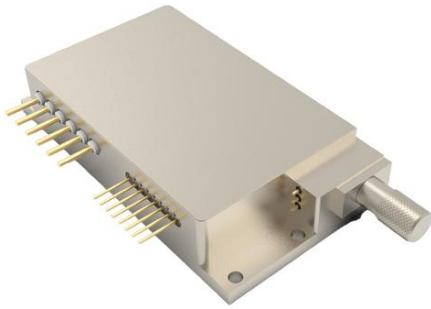


## 1940 nm 6 W Multi-Function Detachable Laser Diode

KJ40HA5CA-6.000W (Standard Product)



### Features:

- 1940 nm wavelength
- 6W output power
- 400  $\mu\text{m}$  fiber core diameter
- 0.22 NA
- Aiming beam
- Fiber monitor
- Thermistor
- Exchangeable window

### Applications:

- Medical use
- Research
- Laser development

Specifications ( 25 )		Symbol	Unit	KJ40HA5CA-6.000W		
				Minimum	Typical	Maximum
Optical Data <sup>(1)</sup>	CW Output Power	$P_o$	W	6	-	-
	Center Wavelength	$\lambda_c$	nm	1940 $\pm$ 20		
	Wavelength Shift with Temperature	$\lambda/\Delta T$	nm/ $^{\circ}\text{C}$	-	0.3	-
Electrical Data	Electrical-to-Optical Efficiency	PE	%	-	15	-
	Threshold Current	$I_{th}$	A		0.3	
	Operating Current	$I_{op}$	A	-	-	6
	Operating Voltage	$V_{op}$	V	-	-	10
	Slope Efficiency	$\eta$	W/A	-	1.1	-
Fiber Data	Core Diameter	$D_{core}$	$\mu\text{m}$	-	400	-
	Numeric Aperture	NA	-	-	0.22	-
	Fiber Connector	-	-	SMA905		
Thermistor	-	$R_t$	(K $\Omega$ )/(25 $^{\circ}\text{C}$ )		10 $\pm$ 3%	
Others	ESD	$V_{esd}$	V	-	-	500
	Storage Temperature <sup>(2)</sup>	$T_{st}$	$^{\circ}\text{C}$	-20	-	70
	Lead Soldering Temp	$T_{ls}$	$^{\circ}\text{C}$	-	-	260
	Lead Soldering Time	t	sec	-	-	10
	Operating Case Temperature <sup>(3)</sup>	$T_{op}$	$^{\circ}\text{C}$	15	-	25
	Relative Humidity	RH	%	15	-	75
Aiming Beam	Output Power	$P_a$	mW	2	-	-
	Wavelength	$\lambda_c$	nm	635 $\pm$ 10		
	Voltage	$V_a$	V	-	2.3	3
	Current	$I_a$	mA		45	65

(1) Data measured under operation output at 6W@25 $^{\circ}\text{C}$ .

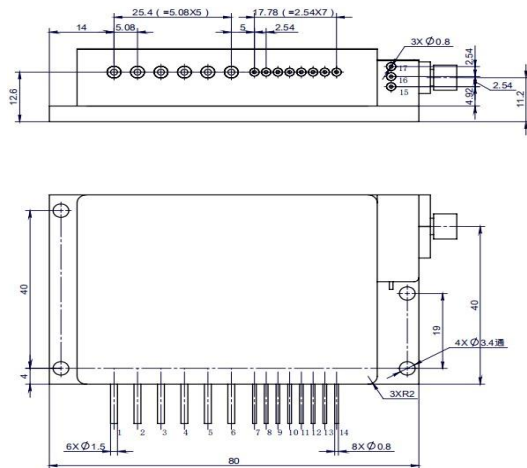
(2) A non-condensing environment is required for operation and storage.

(3) Operating temperature defined by the package case. Acceptable operating range is 15 $^{\circ}\text{C}$ ~25 $^{\circ}\text{C}$ , but performance may vary.

## 1940 nm 6 W Multi-Function Detachable Laser Diode

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### Package Dimensions (mm)



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

## 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°C 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 25°C.
- Storage temperature ranges from -20°C to +70°C.