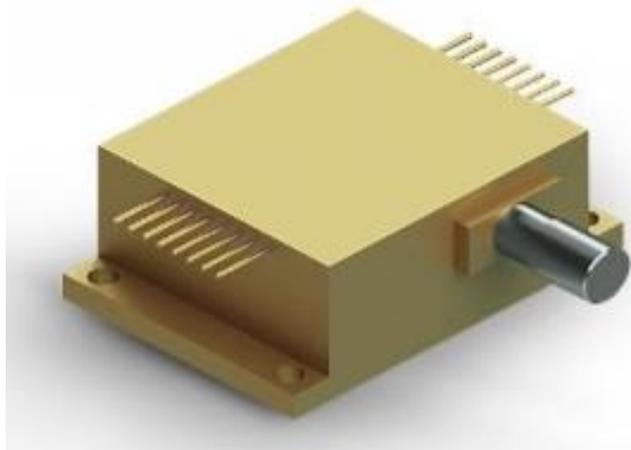


980 nm 30 W Multi-Function Detachable Fiber Laser Diode

K980FAMCA-30.00W (Standard Product)



Features:

- 980nm wavelength
- 30W output power
- 200 μ m fiber core diameter
- 0.22 NA
- Additional Functions :
 - Aiming beam
 - Fiber & Power monitor
 - Thermistor
 - Exchangeable window (Optional)

Applications:

- Medical use
- Scientific research

Specifications (25°C)		Symbol	Unit	K980FAMCA-30.00W		
				Minimum	Typical	Maximum
Optical Data ⁽¹⁾	CW Output Power	P _O	W	30	-	-
	Center Wavelength	λ_c	nm	980 \pm 10		
	Spectral Width (FWHM)	$\Delta\lambda$	nm	-	6	-
	Wavelength Shift with Temperature	$\Delta\lambda/\Delta T$	nm/°C	-	0.3	-
Electrical Data	Electrical-to-Optical Efficiency	PE	%	-	50	-
	Threshold Current	I _{th}	A	-	0.7	-
	Operating Current	I _{op}	A	-	-	13
	Operating Voltage	V _{op}	V	-	5.2	6
	Slope Efficiency	η	W/A	-	2.7	-
Fiber Data	Core Diameter	D _{core}	μ m	-	200	-
	Numeric Aperture	NA	-	-	0.22	-
	Connector	-	-	-	SMA905	-
Thermistor	-	R _t	(K Ω)/(25°C)	-	10 \pm 3%	-
PD	-	PD	μ A	200	-	2000
Others	ESD	V _{esd}	V	-	-	500
	Storage Temperature ⁽²⁾	T _{st}	°C	-20	-	70
	Lead Soldering Temp	T _{is}	°C	-	-	260
	Lead Soldering Time	t	sec	-	-	10
	Operating Case Temperature ⁽³⁾	T _{op}	°C	15	-	35
	Relative Humidity	RH	%	15	-	75
Aiming Beam	Output Power	P _a	mW	2	-	-
	Wavelength	λ_a	nm	635 \pm 10		
	Voltage	V _a	V	-	2.3	-
	Current	I _a	mA	-	45	65

(1) Data measured under operation output at 30W@25°C.

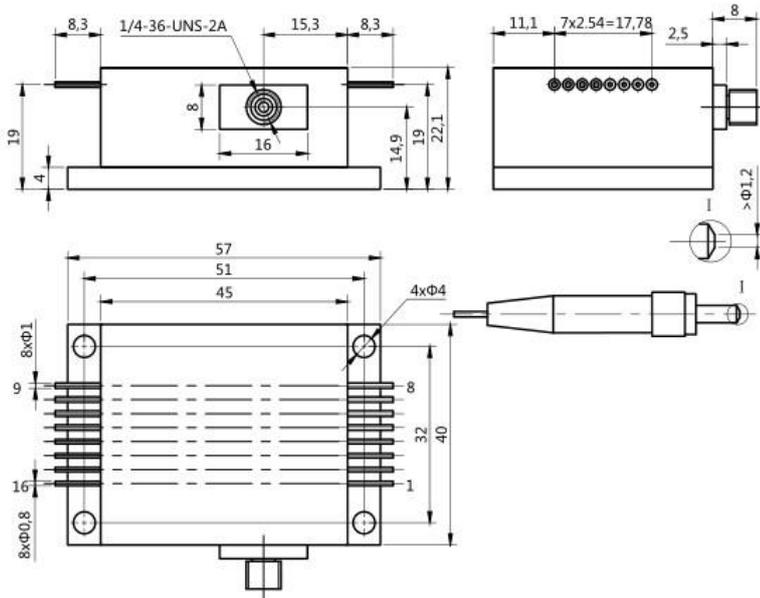
(2) A non-condensing environment is required for operation and storage.

(3) Operating temperature defined by the package case. Acceptable operating range is 15°C~35°C, but performance may vary.

980 nm 30 W Multi-Function Detachable Fiber Laser Diode

K980FAMCA-30.00W (Standard Product)

Package Dimensions (mm)



Pin	Function
1	FCD LED(-)
2	FCD LED(+)&PD (N)
3	FCD PD (P)
4	Aiming beam (+)&PD(N)
5	Aiming beam (-)
6	PD(P)
7	Thermistor
8	Thermistor
9	LD (+)
10	LD (-)
11	NC
12	NC
13	Thermistor
14	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°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 35°C.
- Storage temperature ranges from -20°C to +70°C.