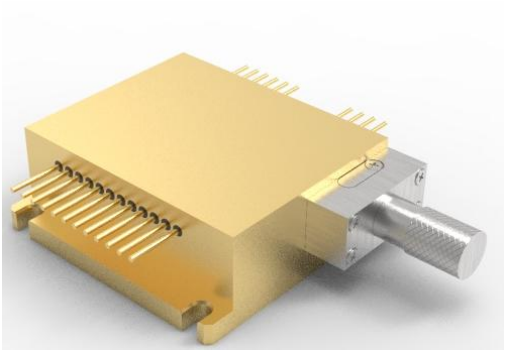
Multi-Wavelength Detachable Diode Laser

KD015F0X5H015MPCN-Y1Y



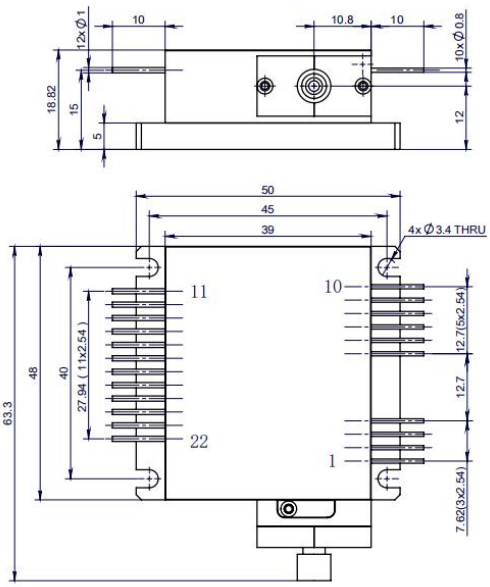
Features:

- Multiple wavelength
- Multiple function
- 200μm fiber detachable
- Additional Functions: Aiming beam、Thermistor、Fiber&Power monitor 、 Replaceable window panel

Applications:

- Medical use

Package Dimensions (mm)



Pin	Function	Pin	Function
1	FCDLED（-）	12	-
2	FCDLED(+)&FCDPD(N)	13	-
3	FCDPD（P）	14	-
4	-	15	-
5	980PD（P）	16	1470 LD（-）
6	980PD（N）	17	980 LD（+）
7	1470PD（P）	18	-
8	1470PD（N）	19	-
9	Thermistor	20	980 LD（-）
10	Thermistor	21	635 LD(+)
11	1470 LD（+）	22	635 LD (-)

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℃.



Multi-Wavelength Detachable Diode Laser

KD015F0X5H015MPCN-Y1Y

Specifications (25℃)		Symbol	Unit	KD015F0X5H015MPCN-Y1Y		
				Minimum	Typical	Maximum
980(1)	CW Output Power	P_o	W	15	-	-
	Center Wavelength	λ_c	nm		980±10	
	Threshold Current	I_{th}	A	-	1.0	-
	Operating Current	I_{op}	A	-	10	13
	Operating Voltage	V_{op}	V	-	3.5	4
1470(1)	CW Output Power	P_o	W	15	-	-
	Center Wavelength	λ_c	nm		1470±20	
	Threshold Current	I_{th}	A	-	1.2	-
	Operating Current	I_{op}	A	-	12	15
	Operating Voltage	V_{op}	V	-	6.0	6.5
635(1)	CW Output Power	P_o	W	0.5	-	-
	Center Wavelength	λ_c	nm		635±10	
	Operating Current	I_{op}	A	-	0.8	1.0
	Operating Voltage	V_{op}	V	-	2.3	2.6
Fiber Data	Core Diameter	D_{core}	μm	-	200	-
	Numerical Aperture	NA	-	-	0.22	-
	Fiber Connector	-	-	-	SMA905	-
Thermistor	-	Rt	(KΩ)/(25℃)		10±3%	
980PD	-	PD	μA	100	-	2000
1470PD	-	PD	μA	10	-	1000
Others	ESD	V_{esd}	V	-	-	500
	Storage	T_{st}	℃	-20	-	70
	Lead Soldering	T_{ls}	℃	-	-	260
	Lead Soldering Time	t	sec	-	-	10
	Operating Case	T_{op}	℃	15	-	30
	Relative Humidity	RH	%	15	-	75

(1) Data measured under operation temperature @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