

1470 nm / 980 nm Multi-Wavelength Detachable Laser Diode

KD030H015A5CC-Y1Y



Features:

- Multiple wavelength
- Multiple function
- 200 μ m fiber detachable
- 0.22NA

Applications:

- Medical use
- Scientific research

Additional Functions:

- Aiming beam
- Fiber & Power monitor
- Thermistor
- Replaceable window panels (optional)

Specifications (25°C)		Symbol	Unit	KD030H015A5CC-Y1Y		
				Minimum	Typical	Maximum
980 ⁽¹⁾	CW Output Power	P _o	W	30	-	-
	Center Wavelength	λ _c	nm	980±10		
	Threshold Current	I _{th}	A	-	1.0	-
	Operating Current	I _{op}	A	-	12	13
	Operating Voltage	V _{op}	V	-	5	6
1470 ⁽¹⁾	CW Output Power	P _o	W	15	-	-
	Center Wavelength	λ _c	nm	1470±20		
	Threshold Current	I _{th}	A	-	0.2	-
	Operating Current	I _{op}	A	-	8	9
	Operating Voltage	V _{op}	V	-	9.0	10.5
Thermistor	-	R _t	(KΩ)/(25°C)	10±3%		
980 PD	-	PD	μA	100	-	3000
1470 PD	-	PD	μA	100	-	1000
Fiber Data	Core Diameter	D _{core}	μm	-	200	-
	Numerical Aperture	NA	-	-	0.22	-
	Fiber Connector	-	-	-	SMA905	-
Others	ESD	V _{esd}	V	-	-	500
	Storage Temperature ⁽²⁾	T _{st}	°C	-20	-	70
	Lead Soldering Temp	T _{ls}	°C	-	-	260
	Lead Soldering Time	t	sec	-	-	10
	Operating Case Temperature ⁽³⁾	T _{op}	°C	20	-	30
	Relative Humidity	RH	%	15	-	75
Aiming Beam	Output Power	P _a	mW	2	-	-
	Wavelength	λ _a	nm	635±10		
	Voltage	V _a	V	5V(Constant)		

(1) Data measured under operation temperature @25°C.

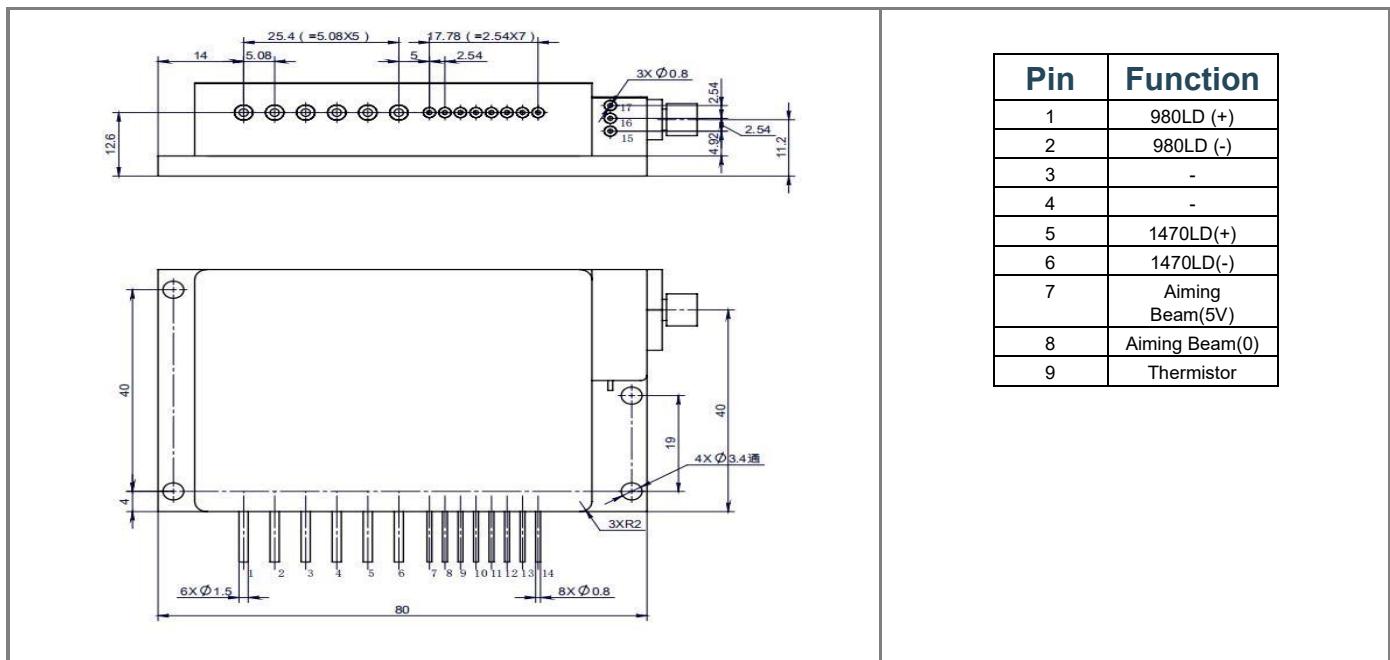
(2) A non-condensing environment is required for operation and storage.

(3) Operating temperature defined by the package case. Acceptable operating range is 20°C~30°C, but performance may vary.

Package Dimensions (mm)

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