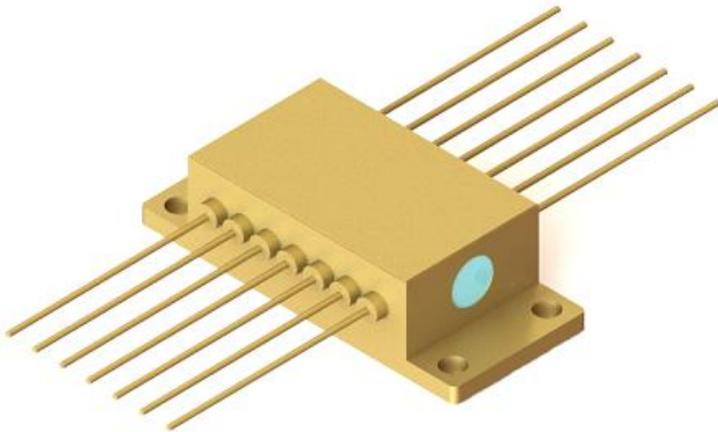


785nm 600mW Free Space Diode Laser**K785AFLWN-0.600W****Features:**

- ◆ 785nm wavelength
- ◆ 600mW output power
- ◆ $\Delta\lambda < 0.12\text{nm}$

**Applications:**

- ◆ Raman Spectroscopy
- ◆ Sensing
- ◆ Medical

BWT Beijing's High Power Diode Laser Modules are manufactured by adopting specialized fiber-coupling techniques, resulting in volume products with a high efficiency, stability and superior beam quality. The products are achieved by transforming the asymmetric radiation from the laser diode chip into an output fiber with small core diameter by using special micro optics. Inspecting and burn-in procedures in every aspect come to a result to guarantee each product with the reliability, stability and long lifetime.

Our research staff are constantly improving and innovating the processing technology in the producing process, based on the professional knowledge and experience accumulated in long-terms. We are also continuously developing new products to meet customers' specific needs.

At BWT Beijing, to provide high quality products with reasonable price is always our goal.



Distributor

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785nm 600mW Free Space Diode Laser

K785AFLWN-0.600W

Specifications(25°C)		Symbol	Unit	K785AFLWN-0.600W		
				Minimum	Typical	Maximum
Optical Data ⁽¹⁾	CW Output Power	P _o	mW	600	-	-
	Center Wavelength	λ _c	nm	785±0.5		
	Spectral Width (FWHM)	Δλ	nm	<0.12		
	Wavelength Shift with Temperature	Δλ/ΔT	nm/°C	-	0.01	-
	Wavelength Shift with Current	Δλ/ΔA	nm/A	-	0.03	-
Electrical Data	Electrical-to-Optical Efficiency	PE	%	-	30	-
	Operating Current	I _{op}	A	-	1.1	-
	Threshold Current	I _{th}	A	-	0.4	-
	Operating Voltage	V _{op}	V	-	1.8	-
	Slope Efficiency	η	W/A	-	0.9	-
PD Data	Current	I _{mo}	μA	50	-	500
Thermistor	-	R _t	(K Ω)/β(25°C)	-	10±3%/3477	-
TEC Data	Max. Current	I _{tec}	A	-	-	2.2
	Max. Voltage	V _{tec}	V	-	-	8.7
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

(1) Data measured under operation output at 0.6W@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.

