

## Laser Diode

BL1425-PAG500



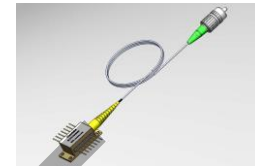
S/N: B1425P500.A002

Center Wavelength: 1424.8 nm  
Fiber Type: PM15-U25D  
Test Date: 6/12/2019



Diode Package: Butterfly  
Connector: FC/APC  
Tested By: Yimin

QA: Pass



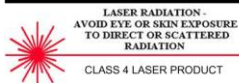
### Summary of Test Data ( CW, $T_{chip}=25^{\circ}C$ )

Parameter	Symbol	Value	Unit
Fiber Output Power	$P_{op}$	500.0	mW
Operating Current@ $P_{op}$	$I_{op}$	1560.8	mA
Operating Voltage@ $P_{op}$	$V_{op}$	1.68	V
Threshold Current	$I_{th}$	70.4	mA
Slope Efficiency	$\Delta P/\Delta I$	0.30	W/A
Polarization Extinction Ratio	PER	21.0	dB

### Absolute Maximum Ratings

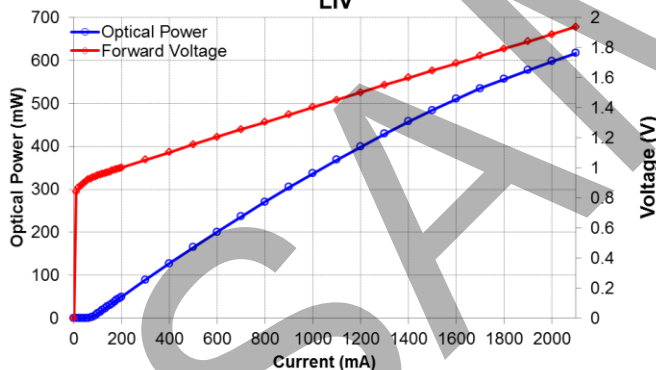
Parameter	Ratings	Unit
Laser Diode Current*	2100	mA
Optical Output Power*	650	mW
LD Reverse Voltage*	2	V
Storage Temperature	-40~+85	$^{\circ}C$
Case Temperature	-5~+75	$^{\circ}C$

\* CW,  $T_{chip}=25^{\circ}C$

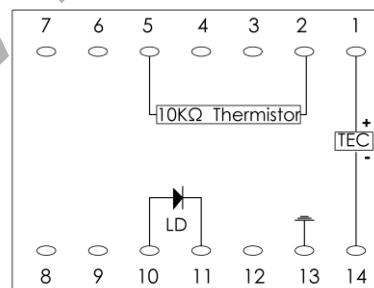


CAUTION- use of controls or adjustments or performance of procedures other than those specified herein may result in hazardous radiation exposure. There are no user serviceable parts in this product. When proper power is applied to this product, laser radiation will be emitted from distal fiber end.

B1425P500.A002  
LIV



### Pin Diagram



PIN	Desc
1	TEC (+)
2	Thermistor
5	Thermistor
10	LD Anode
11	LD Cathode
13	GND
14	TEC (-)

### Important Notes:

1. The maximum ratings mean the limitation over which the laser should not be operated even momentarily.
2. To protect the laser diode from damage due to static electricity (ESD), please follow proper ESD handling precautions.
3. To ensure safe operation use only with a suitable power source that complies with the pertinent requirements for laser systems as specified in IEC-60825-1 "Safety of Laser Products."
4. The monitor PD is intended to be used as a soft indicator of relative power. Its current value may change if the coiled fiber is repositioned. For monitoring absolute power, an external fiber tap coupler with separate monitor PD is recommended.
5. Refer to the Spec Sheet for complete specifications and additional operation notes.



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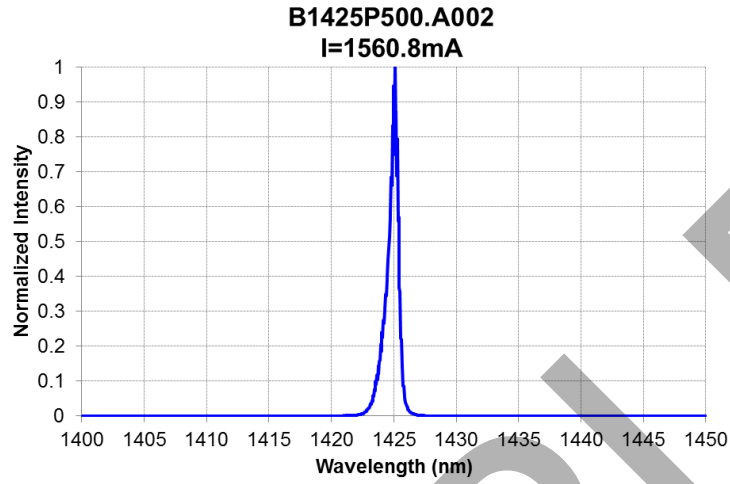
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$T_{\text{chip}}=25^{\circ}\text{C}$ ,  $I_{\text{op}}=1560.8\text{mA}$   
Spectrum measured by ANDO AQ6315.

SAMPLE