

830nm 1W Fiber Coupled LD with 14-pin Butterfly (BTF) Package | TEC Cooling| PD Optional
830nm|14-pin Butterfly | 50um 60um 105um 200um 400um Fiber Core| High Power Laser Diode
WSLX-830-001-H-T Wavespectrum Laser, Inc. www.wavespectrum-laser.com

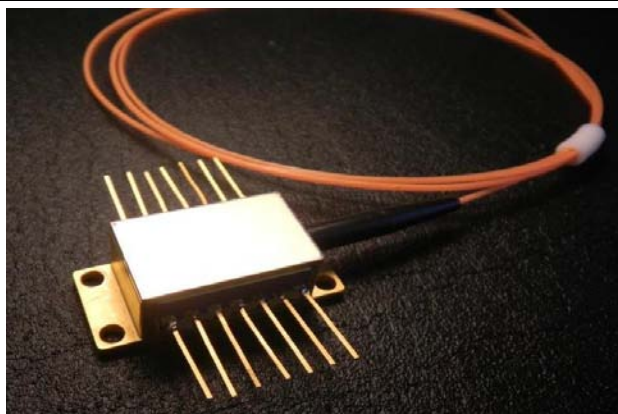
PARAMETER	SYMBOL	VALUE	UNIT
Reverse Voltage	V_r	2.0	V
Operating Temperature	T_{op}	-10 ~ +30	°C
Storage Temperature	T_{stg}	-40 ~ +85	°C
Lead soldering temperature (10 sec.)	T_{is}	260	°C

Features:

- 830nm
- 14-pin Butterfly package
- Built-in Photodiodes
- Built-in TEC Cooling

Applications:

- Medical laser treatment
- Printing
- Others



Specifications

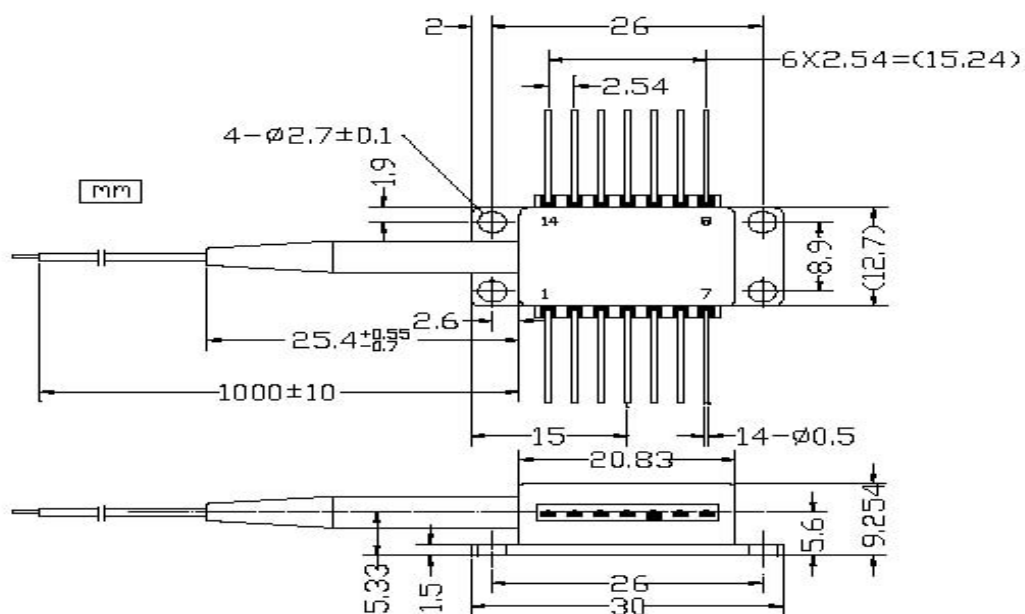
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	Min	Type	Max
Center Wavelength@25°C	±3nm	830	±10nm
Spectral Width (FWHM)	----	1nm	2.5nm
Output Power		1W	
Temperature Coefficient of Wavelength	0.3nm / °C		
Threshold Current (Typ.)	160mA		
Operating Current (Typ.)	1.2A		
Operating Voltage	1.8V		
Recommended Case Temperature	25°C		
TEC Max Current	1.8A		
TEC Max Voltage	2.5V		
Fiber Core	60um (50um 105um 200um 400um Optional)		
N.A.	0.22 (0.12 N.A. , 0.37 N.A. Optional)		
Fiber Length	80cm		
Connector Type	SMA905 / ST / FC		
Package Style	14-PIN Butterfly Package		

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14-Pin Package View



Pin Out

PIN	FUNCTION	PIN	FUNCTION
1	TEC (+)	8	NC
2	Thermistor	9	NC
3	PD (+)	10	LD (+)
4	PD (-)	11	LD (-)
5	Thermistor	12	NC
6	NC	13	Case Ground
7	NC	14	TEC (-)

Electrically shorten LD module and store in non-extreme conditions.

Suggest using the constant current power supply.



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