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Approval Sheet

Part No. : AD-808-15-D200-22-G4

Version : 0

Date : Jun. 14, 2012

Draw By	Confirmed By	Approval By
		
Date	Date	Date

808nm HIGH POWER DIODE LASER MODULE

AD-808-15-D200-22-G4 V.0

M808±10-XRM808 V.0

Output : 808nm/15W for Fiber

Features

High Output Power at 15W

Fiber Core Diameter = 200µm

Numeric Aperture = 0.22

Applications

Pumping source for laser system

Medical applications

Material process

Electric and optical characteristics

(TC=25 °C)

ITEM	Symble	Value			Unit	
		min.	typ.	max.		
Optical Spec.	Operating Output Power	Pop	-	-	15	W
	Centra Frequency	lc	803	808	812	nm
	Spectral Width (90% power)	l	-	-	3	nm
	Wavelength / Temp. Coefficient	l / T	-	0.35	-	nm/
Electronical Spec.	Threshold Current	lth	-	0.8	-	A
	Operating Current	lop	-	4.7	-	A
	Operating Voltage	Vop	-	7.2	-	V
	Slope Efficiency	ηes	-	3.8	-	W / A
	Percentage Efficiency	ηep	-	45	-	%
Indication Laser*	Output Power	Ppb	2	-	-	mW
	Center Frequency	lpb	640	650	660	nm
	Operating Current	lpb	-	-	30	mA
	Operating Voltage	Vpb	-	-	2.2	V

ITEM	Symble	Value			Unit	
		min.	typ.	max.		
Fiber spec**	Core Diameter	dcore	-	200	-	μm
	Cladding Diameter	dclad	-	220	-	μm
	Buffer Diameter	dbuffer	-	500	-	μm
	Numeric Aperture	NA	-	0.22	-	-
	Connector	-	-	SMA905	-	-
Other Spec.	Operating Temp. Range	-	10	-	40	
	Working Humidity	-	-	-	75	%
	Storage Temp. Range	-	-20	-	80	
	StorageWorking Humidity	-	-	-	90	%
	Pin Soldering Temp. (10 sec. max)	-	-	-	250	

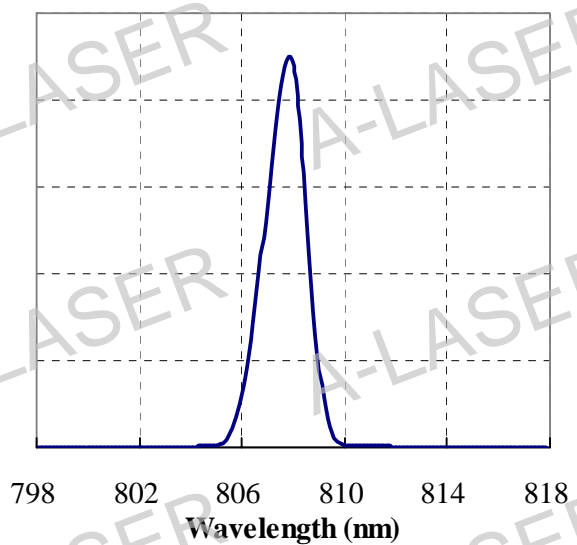
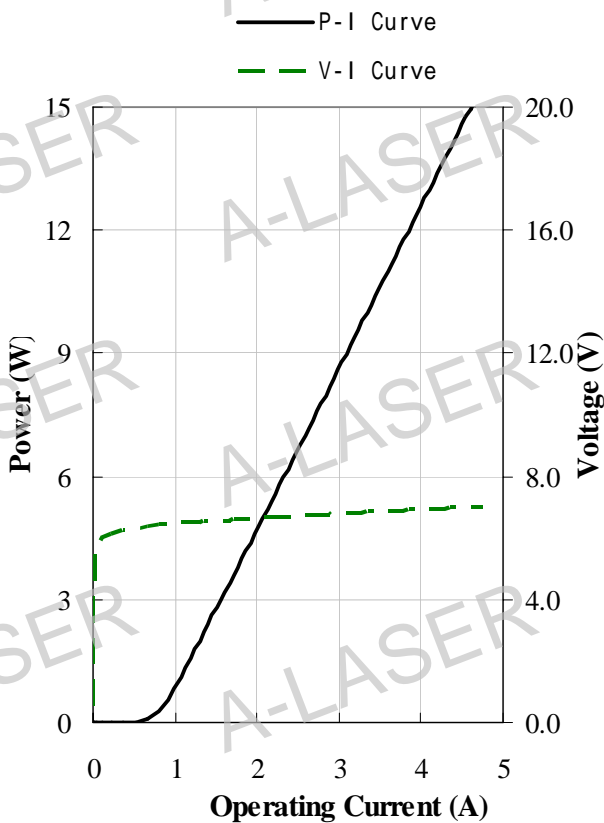
Remark :

*Indication Laser : Base on request to this drive unit also & only need to input extra 5VDC power to drive.

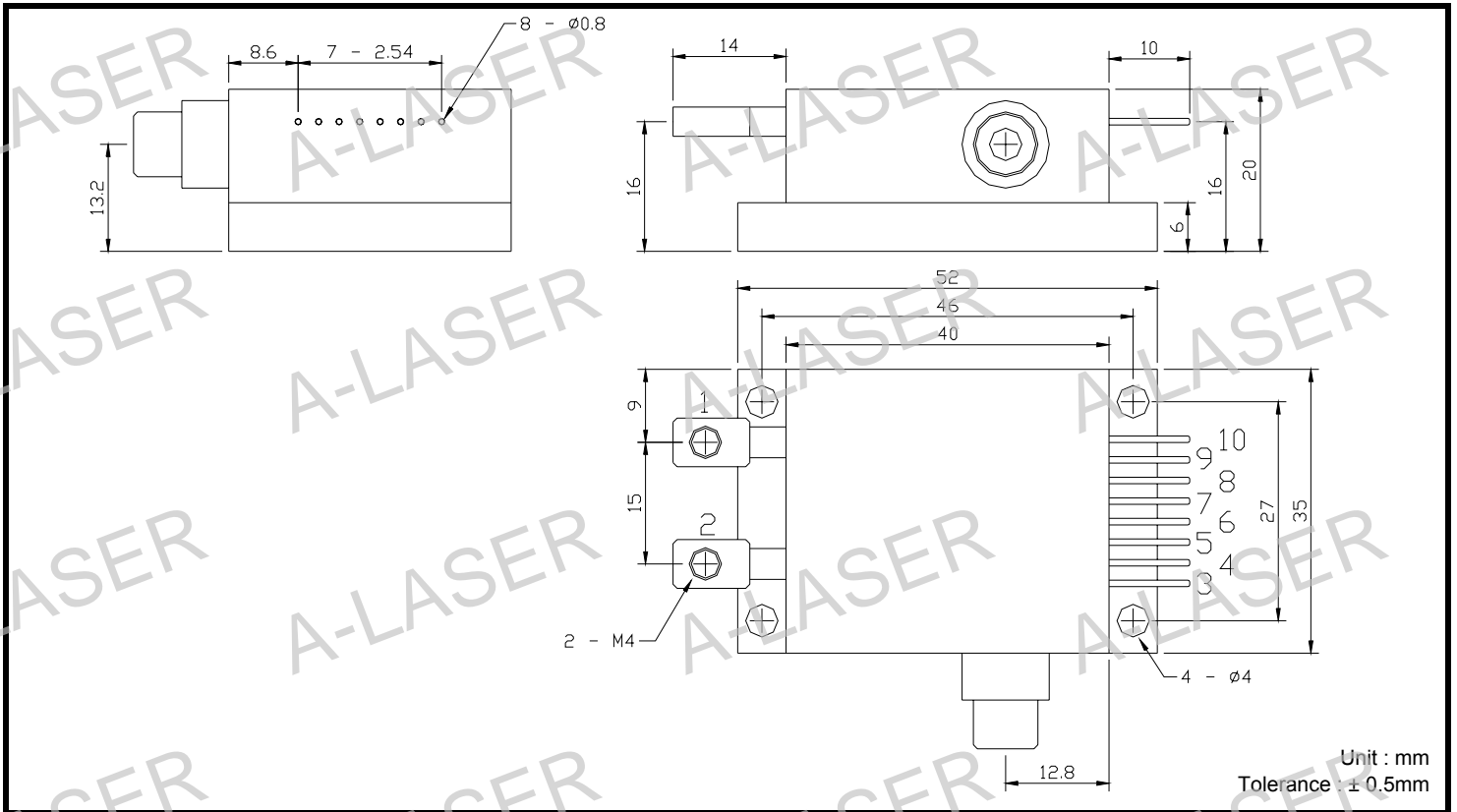
**fiber types can change by request

Diode Module Electric Characteristic

Diode Module spectrum Characteristic



Dimension



Pin Connection

Pin No	Function
1	Ground
2	VCC
3	Fiber Socket (+)
4	Fiber Socket (-)
5	Indication Laser Vcc (+5VDC)
6	Indication Laser Ground
7	PD (N)
8	PD (P)
9	TSR (Thermally Sensitive Resistance)
10	TSR (Thermally Sensitive Resistance)

Note: Pin #4 is connect with the metal cover of module. When fiber connector plug in the socket of module, then the Pin#3 / Pin#4 will be short automatic.

**For reference only. Contents above are subject to change without notice.*