



Technical Specifications

Model No. BG-PMNL-M2-1550.12-3K-13-09PM-1m-FC/APC

Product Name PM Ultra Narrow Linewidth Laser

Technical File BG.04.0064-000

Version V1.0

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1 Specifications

1.1 Optical Specifications

Parameter	Min.	Typ.	Max.	Unit
Center Wavelength	-	1550.12	-	nm
Output Power	-	13	13	dBm
Linewidth	-	3	-	kHz
Relative Intensity Noise	-	-	-100	dB/Hz
Output Power Stability	-	-	1	%
Wavelength Stability	-0.5	-	0.5	pm
SMSR	-	>50	-	dB
Stabilization Duration	-	<15	-	Min
Polarization Extinction Rate	20	-	-	dB

1.2 Working Environment

Parameter	Min.	Typ.	Max.	Unit	Remarks
Working Temperature Range	-10	-	+50	°C	
Storage Temperature Range	-20	-	+60	°C	
Relative Humidity	0	-	90	%	

1.3 Electrical Specification

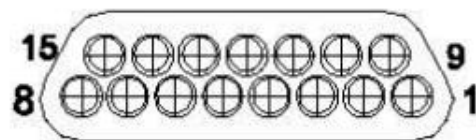
1.3.1 Power Specification

Parameter	Min.	Typ.	Max.	Unit	Remarks
Power Supply	+4.75	+5	+5.25	V	
Power Consumption	-	3	15	W	

1.3.2 Connector Type

Connector: RS232 communication interface

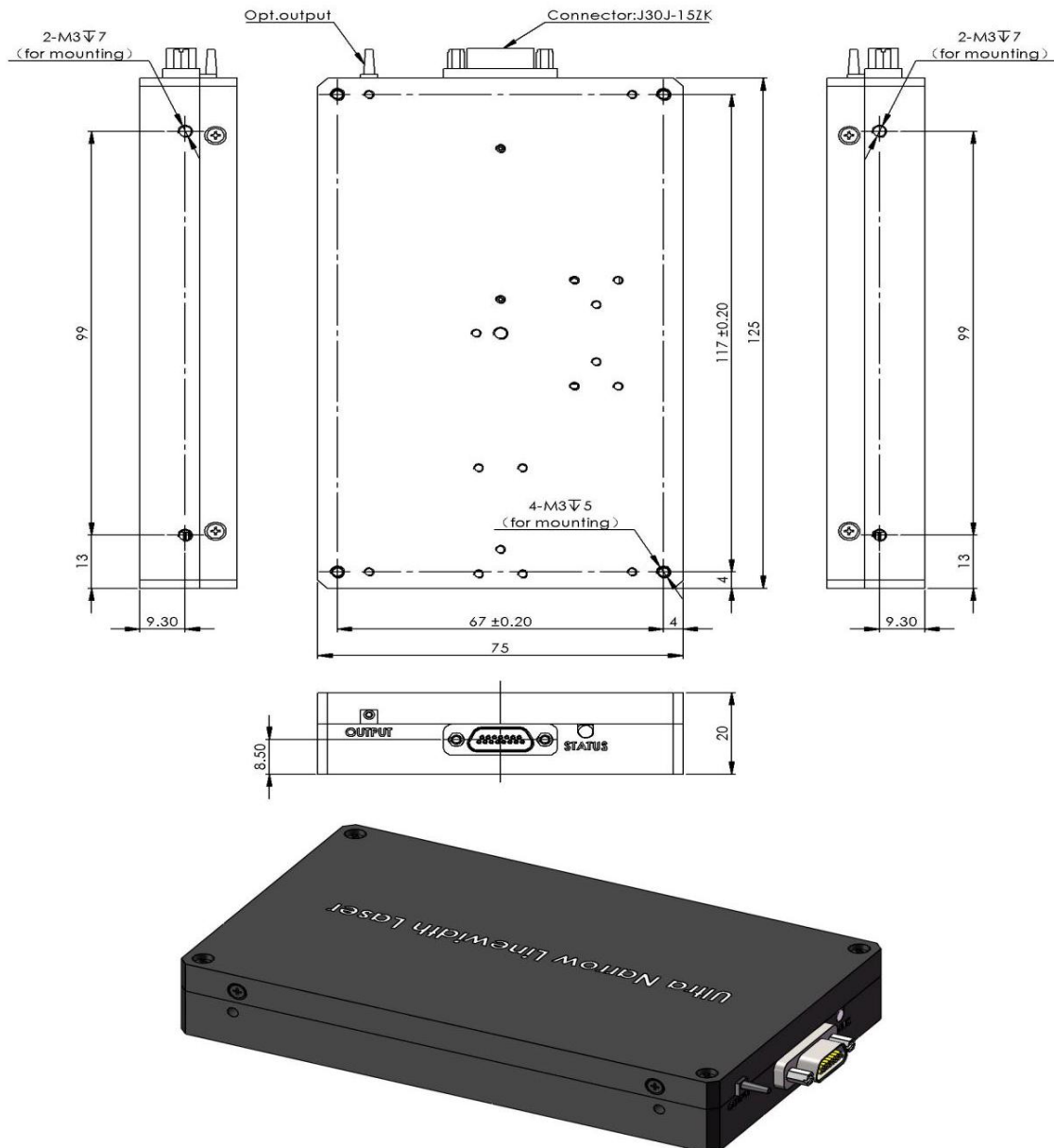
DB9 Female Connector	
12,13,14,15	+5V
8,9,10,11	Power GND
2	TX
5	RX
7	GND



2 Mechanical Structure and Pigtail

2.1 Mechanical Structure

Dimensions in mm: 125x75x20mm



2.2 Pigtail

Item	Specifications
Fiber Type	PMF28 900um Tube
Pigtail Length	1000 $\pm$ 10mm
Fiber Colour	Red
Fiber Connector	FC/APC

3 Software Protocol Definition

3.1 Serial Communication Protocol

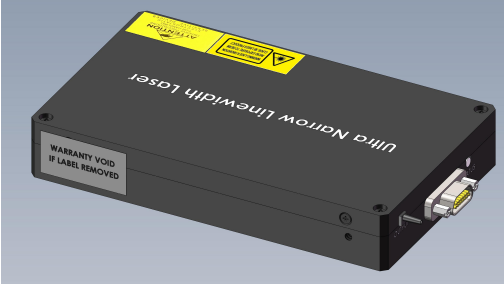
Item	Value	Unit
Baudrate	9600	Bit/s
Data Bits	8	Bit
Stop Bits	1	Bit
Parity	None	-

4 Labeling

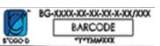
4.1 Interface Label

Fiber Interface	Labeling	Label Type
Fiber Output	Output	Tube

4.2 Warning Label

Warning Label	Labeling	Label Type and Location
Laser Safety Warning Label		
Anti-Static Warning Label		

4.3 Identification Label

Label	Labeling	Label Type and Location
SN/PN		

5 Parts and Accessories

Item	Quantity
Ultra Narrow Linewidth Laser Module	1 PC
User Manual	1 PC
Test Report	1 PC
Serial Interface Cable	1 PC
Control Software	1 PC