Volume Bragg Grating Stabilized Laser Diode Module

FOLM-406-12-LM

Features

Single Frequency
Long Coherence Length
Remote Computer and Onboard User Controls with Integral LCD Display
Temperature and Current Stabilisation

Applications

Raman Spectroscopy
Interferometry
Metrology
HeNe Replacement
Bio-Instrumentation
Particle Counting
LIDAR
Graphic Arts
Sensing

Optical Specifications (25°C)

	Symbol	Min	Typ	Max	Unit
Output Power	P_{out}		12		mW
Lasing Wavelength	λ	-	406	-	nm
Wavelength Tolerance	λ	-	±1	-	nm
Line Width	$\Delta\lambda$	-	160	-	MHz
Polarization Ratio			100:1		
Spatial Mode			Single Mode		
Noise (RMS) 0-20MHz		-	0.25	0.5	%
Power Stability over 1 hr	ΔP_{out}	-	0.1	0.5	%
Pointing Stability		-	-	±25	µrad
Beam Size			0.6 x 0.3		
Beam Divergence		-	1	10	mrad
Electrical Parameters					
Voltage		-	3.3	-	V
Current		-	-	1.5	A
Modulation Input (TTL)		0	-	5	V
Modulation Speed		-	-	3	kHz
Environmental Condition					
Storage Temperature		-10	-	60	°C
Operation Temperature		10	25	45	°C
Operation Humidity			Non-Condensing		
Dimensions			100mm x 40mm x 42.5mm		

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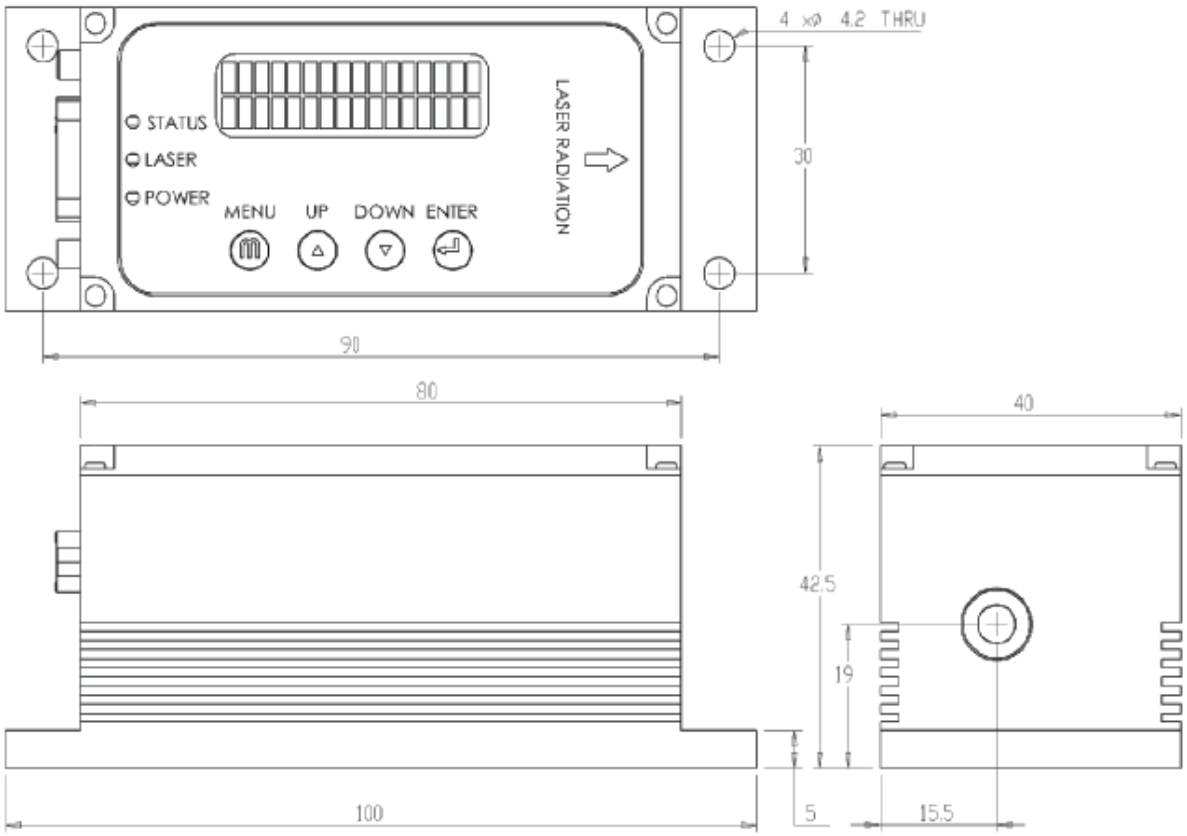
Package



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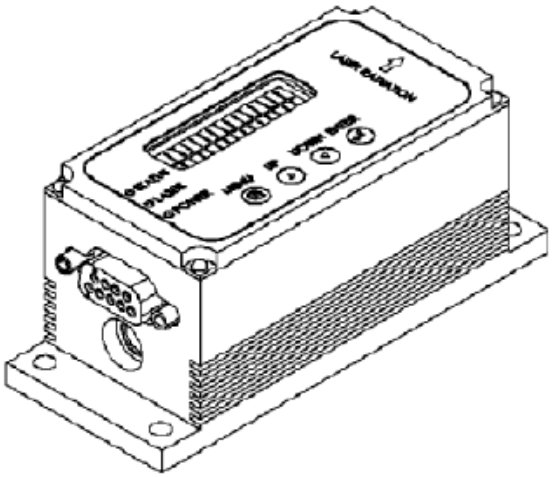

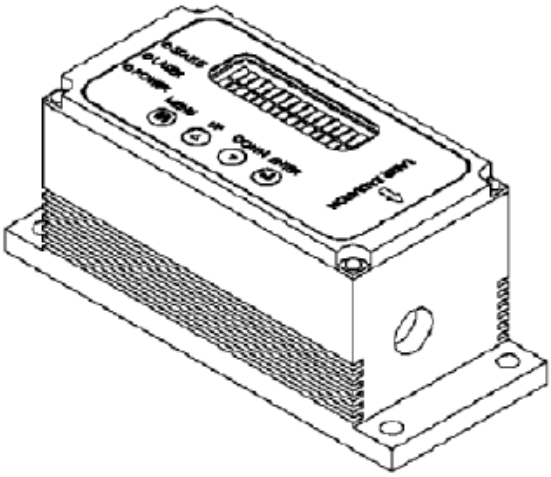

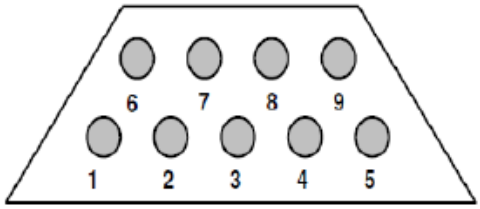

Pin	Definition	Description
1	VCC	Positive Power Pin +3.3V
2	TXD	Send data to computer (RS232)
3	RXD	Receive data from computer (RS232)
4		-
5	GND	GND for power and RS232
6	TTL	Outside TTL Modulation
7		-
8		-
9	GND	GND for power and RS232

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