High Frequency Modulated DPSS Laser System
DPFM Series

Data Sheet

Overview

The DPFM series is a family of high frequency modulated diode pumped solid state (DPSS) lasers available at 473nm, 532nm, 556nm, 561nm and 671nm with modulation frequency up to 1MHz. The DPFM series exhibits features of high extinction ratio, easy coding, usableness, and is widely used in fields, such as laser graphic processing, laser digital communications, etc.

Features

- Available wavelengths: 473nm, 532nm, 556nm, 561nm and 671nm
- Modulation frequency up to 1MHz
- Optical output power 30mW to 300mW
- Ultra-compact design
- FDA compliant

Applications

- Laser graphic processing
- Laser digital communications

473-671 nm Specifications

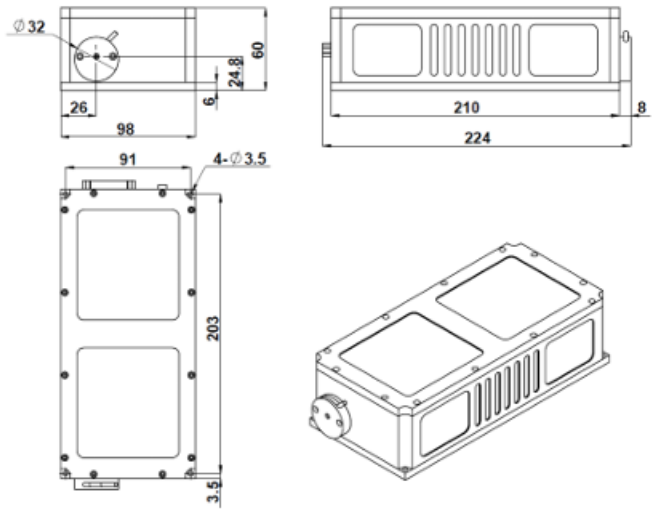
Parameter	DPFM473	DPFM532	DPFM556	DPFM561	DPFM671
Wavelength	473±1 nm	532±1 nm	556±1 nm	561±1 nm	671±1 nm
Output power	>50 mW, >100 mW	>200 mW, >300 mW	>30 mW, >50 mW, >80 mW, >100 mW	>30 mW, >50 mW, >100 mW	>100 mW, >200 mW, >300 mW
Transverse mode	Near TEM_{00}				
Power stability (rms, over 4 hours)	<5%, <3%, <1%				
M^2 factor	<1.5				
Beam diameter at aperture ($1/e^2$)	~3.0 mm				
Beam divergence, full angle	<1.5 mrad				
Polarization ratio	>100:1				
Warm-up time	<10 min				
Pointing stability after warm-up	<0.05 mrad				
Operating temperature	10-35°C				
Modulation option	1MHz				
Expected lifetime	10000 hours				
Warranty period	10 months				

Remarks:

- Specifications of the CW laser is based on the laser performance at full power output after the specified warmup period. The stability of output power may change when output power is adjusted at a different power level.
- The above specifications are subject to change without notice.

DPFM Series Laser Head Dimensions

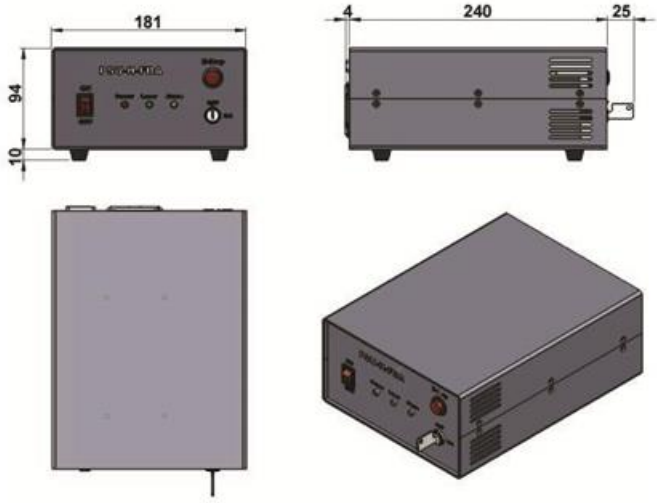
Unit: mm



Parameter	DPFM Series
Dimensions	224(L)×98(W) ×60(H) mm^3
Weight	1.9 kg
Beam height from base plate	24.8 mm

DPFM Series Power Supply Dimensions

Unit: mm



Parameter	High Power Elite AOM Power Supply
Dimensions	269(L) ×181(W) ×104(H) mm^3
Weight	2.7 kg
Input voltage	90-264VAC
Feature	Standard

Ordering Information

For more information, please contact Lasermate directly at sales@lasermate.com.

Part Number Configuration DPFM[1][2][3][4][5]					
DPFM = Laser Model Series	**[1] = Wavelength**	**[2] = Output Power**	**[3] = Power Supply**	**[4] = Power Stability**	**[5] = Modulation**
		30= >30mW 50= >50mW 80= >80mW 100= >100mW 200= >200mW 300= >300mW	AH= High Power Elite AOM Power Supply	A=<5% E=<3% D=<1%	1M= 1MHz

Note: The above specifications are subject to change without notice.