

YTTERBIUM DOPED FIBER LASER

# 1064 nm, 20 uJ FIBER LASER

Model Number: **YDFL-NANO-1064-5-20-1-FCA**

Product Code: **1502**

This is an ytterbium doped fiber laser that emits light at a wavelength of 1064 nanometers (nm) and has a pulse energy of 20 microjoules ( $\mu$ J). This type of laser is often used for applications in research and military application. It can also be used for medical applications.



**Specifications:**

June 2023

Parameters	Specifications
Center Wavelength	1064 nm typical
Pulse Width	4 – 6 ns
Energy Per Pulse	Up to 20 $\mu$ J
Pulse Repetition Rate	50 – 250 kHz
Output Power	1.0 W
Optical Output	Cable with FC/APC, 12/125um core/cladding NA = 0.07
Timing Jitter	$\leq$ 2 ns, rising edge of the TTL trigger to the Laser Output Pulse
Control and Communication Interface	RS-232, RS-232 voltage level
Dimension	158 x 120 x 25 mm
Power Input	+24 VDC +/- 5%
Electrical Interface Connector	PN: MD25M2000/AA
Operational Case Temperature Range	0 to +60 °C
Mode of Operation	ACC (constant pulse current control)



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Proprietary Information of Nuphoton Technologies

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## Electrical connector:

Part number: MD25M2000/AA

Pin No.	Description	Pin No.	Description
1	PUMP ENABLE/DISABLE	14	RS232 RX
2	LASER STATUS	15	RGND
3		16	PA IBIAS ALARM
4	CUSTOMER SIGNAL	17	MMBA IBIAS ALARM
5	GROUND	18	CASE TEMP ALARM
6	CASE TEMP OUT	19	TRIG ALARM
7	MECH ENCLOSURE	20	COM ALARM
8	AGND	21	+24 VDC
9	MM IBIAS OUT	22	+24V DC
10	PRE-IBIAS OUT	23	GROUND
11	BURST INP	24	GROUND
12	NC	25	
13	RS232 TX		



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