

# YTTERBIUM DOPED FIBER LASER

Model Number: **YDFL-NANO-1060-100-50-1.5-COL**

Product Code: **1502**

**Micro Processor Controlled**

**Nanosecond Fiber Laser Module**



## Specifications:

Parameters	Specifications
Center Wavelength	1060 nm typical
Pulse Width	70 – 100 ns
Energy Per Pulse	Up to 50 $\mu$ J
Pulse Repetition Rate	30 kHz
Output Power	1.5 W
Optical Output	3.5 mm beam diameter
Output Beam Divergence	0.5 mrad typical
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	-5 to +60 $^{\circ}$ C
Mode of Operation	ACC (constant pump current control)

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Top trace: external trigger Bottom trace: laser output pulse

### 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		

