

NP3000MOPA-4.0 4W LIDAR Source

NP3000MOPA-4.0 is a pulsed laser source with 4.0W typical average output power designed for LIDAR/LADAR applications.

NP3000MOPA-4.0 provides high peak power light pulses in the eye-safe wavelengths around 1550 nm in response to TTL level trigger signals. The unit operates from +28VDC and has dedicated electronic and optical circuitry for pulse generation, amplification, and noise management. The unit comes with an RS-232 serial communication interface for control and monitoring.

NP3000MOPA products have been tested for shock and vibration according to MIL-STD-810E specifications.



Features	Applications
<ul style="list-style-type: none"> ▪ Output power: up to 4 Watts ▪ Kilowatt level peak powers ▪ 2-3 ns wide output pulses ▪ Direct modulation up to 200MHz ▪ High reliability ▪ All telecom grade components ▪ Air-cooled 	<ul style="list-style-type: none"> ▪ LIDAR / LADAR ▪ Spectroscopy ▪ Nonlinear Optics ▪ Free-Space Communication ▪ Material Processing ▪ Ellipsometry ▪ R&D

NUPHOTON TECHNOLOGIES, INC.

41610 Corning Place, Murrieta, CA 92562

Phone: 951-696-8366 Fax: 951-696-8394

Website: www.nuphoton.com email: info@nuphoton.com

NP3000MOPA-4W High Power Source

Optical Performance

Parameter	Min.	Typ.	Max.	Units
Wavelength of operation	1545	-	1565	nm
Average power	-	4	-	W
Peak power	-	-	40	kW
Pulse width	-	2	3	ns
Rep rate	-	10	200	kHz
Stability	-	-	0.1	dB/min
Output fiber core diameter (multimode), NA	-	100, 0.22	-	um
Input voltage rating	24	26	28	V
Power dissipation	-	170	200	W
Temperature range of operation	-20	25	50	°C
Output connector	Customer specific			

Electrical Connector Pin Out

Connector: D38999/20WC35SN Connector

Pin	Function	Pin	Function
1	RS232 Transmitter	12	Reserved
2	RS232 Receiver	13	Reserved
3	Reserved	14	GNDD
4	Reserved	15	GNDL
5	Reserved	16	Trigger Signal Input
6	Reserved	17	Reserved
7	Reserved	18	GND
8	Reserved	19	+28V
9	Laser Enable/Disable (Enable : TTL Low)	20	Reserved
10	+28V	21	Reserved
11	Reserved	22	GND

NUPHOTON TECHNOLOGIES, INC.

41610 Corning Place, Murrieta, CA 92562

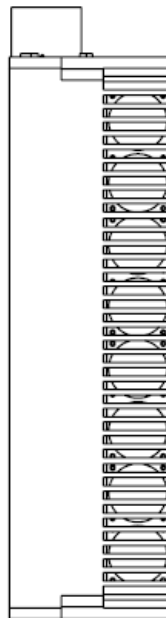
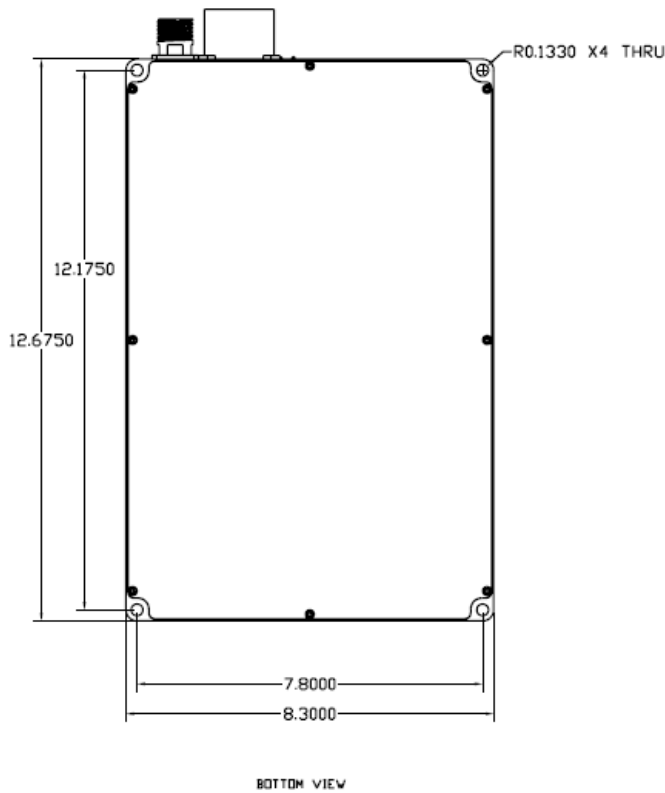
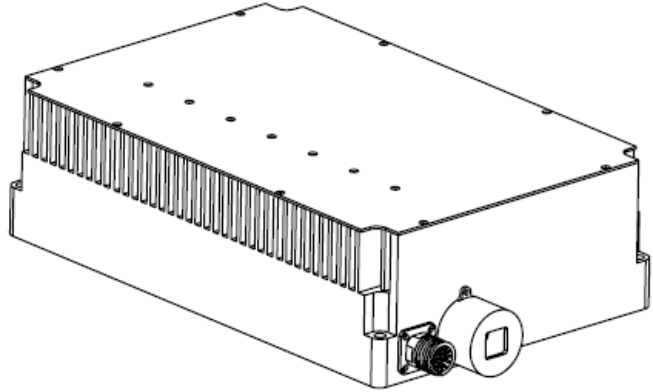
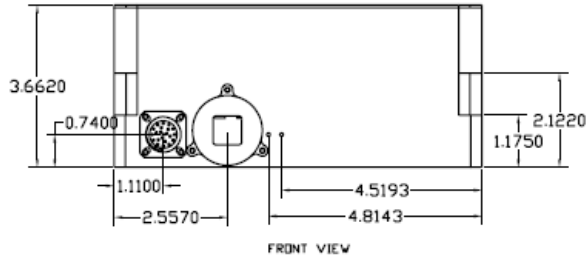
Phone: 951-696-8366 Fax: 951-696-8394

Website: www.nuphoton.com email: info@nuphoton.com

NP3000MOPA-4W High Power Source

Module Package Outline

All dimensions in inches



NUPHOTON TECHNOLOGIES, INC.

41610 Corning Place, Murrieta, CA 92562

Phone: 951-696-8366 Fax: 951-696-8394

Website: www.nuphoton.com email: info@nuphoton.com

NP3000MOPA-4W High Power Source

Laser Safety Information

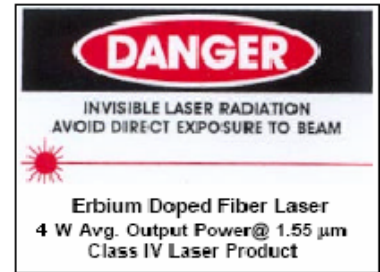
Class IV Laser Product

Multi-mode 100-micron connector

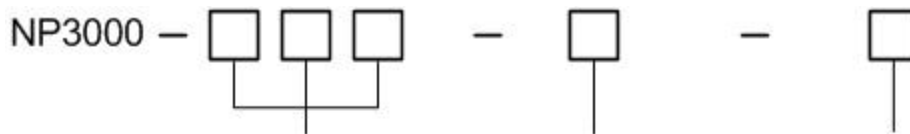
Wavelength = 1550nm, 980nm or 1480 nm

Pulsed Laser Source @ 25 – 100 KHz, 1- 5ns pulse width

Maximum power = 4 Watts Average power



Ordering Information



Avg. Output Power	Rep Rate/ Data Rate	Output Fiber Core Dia.
E.g.:	0 2.5 Gbps	0 9 micron (SM)
006 600 mW	1 10 Gbps	1 50 micron (MM)
014 1.4 W	2 10 kHz	2 100 micron (MM)
	3 25 kHz	3 Other
	4 50 kHz	
	5 Other	

Example: NP3000-014-2-0

Contact

For pricing, lead-time and availability please contact:



41610 Corning Place, Murrieta, CA 92562
Phone: 951.696.8366, Fax: 951.696.8394
Contact: Norm Nelson (Ext: 102)
E-mail: info@nuphoton.com
Website: www.nuphoton.com