

**NP2000M EDFA Gain Block**

NP2000M EDFA is a cost-effective EDFA (Erbium Doped Fiber Amplifier) Gain Block module in the C band (1528 to 1563nm) or in the L band (1568 to 1603 nm). NP2000M can be configured for booster, pre-amplifier or line amplifier. EDFA gain block is also available with built-in control electronics ([NP2000RS Series](#)). For rackmount/table top applications refer to [NP2000PR Series](#).



NP2000 series products are CDRH certified for laser safety (IEC 60825-1 & IEC 60825-2) and comply with Telcordia GR1312 requirements.

Features	Applications
<ul style="list-style-type: none"> <li>▪ Low-cost</li> <li>▪ Low noise figure</li> <li>▪ Low power consumption</li> <li>▪ Wide bandwidth</li> </ul>	<ul style="list-style-type: none"> <li>▪ Single channel</li> <li>▪ DWDM</li> <li>▪ Power booster for CATV applications</li> <li>▪ Pre-amplifier</li> <li>▪ Test equipment</li> <li>▪ MANs, LANs and WANs</li> </ul>

**NUPHOTON TECHNOLOGIES, INC.**

# NP2000M Metro EDFA

## Optical Performance

Parameter	Min.	Typ.	Max.	Units
Output Power (Other output powers available)	-	-	10, 13, 17, 20, 22	dBm
Pump wavelength		980/1480		nm
Operating wavelength (C-band)	1528	-	1563	nm
Operating wavelength (L-band)	1568	-	1603	nm
Polarization sensitivity	-	-	0.3	dB
Polarization mode dispersion	-	-	0.3	ps
Temperature dependent gain	-	0.5	1.0	dB
Temperature range of operation	-10	25	65	°C
Input Voltage Rating	4.75	5.0	5.25	VDC
Input/Output Connectors	Customer specific			

## Electrical Connector Pin Out

Connector: Hirose FX4Bx-32P-1.27xx Connector

Pin	Performance	Pin	Performance
1	Input Monitor PD – A	16	TEC (+)
2	Input Monitor PD – K	17	TEC (+)
3	Input Monitor PD – GND	18	TEC (+)
4	Output Monitor PD – A	19	TEC (+)
5	Output Monitor PD – K	20	TEC (-)
6	Output Monitor PD – GND	21	TEC (-)
7	Reflected Power Monitor PD – A	22	TEC (-)
8	Reflected Power Monitor PD – K	23	TEC (-)
9	Reflected Monitor PD – GND	24	Laser Diode – A (+)
10	N.C.	25	Laser Diode – A (+)
11	N.C.	26	Laser Diode – A (+)
12	N.C.	27	Laser Diode – A (+)
13	Laser Power Monitor PD – A	28	Laser Diode – K (-)
14	Laser Power Monitor PD – K	29	Laser Diode – K (-)
15	Thermistor, Case GND	30	Laser Diode – K (-)

### NUPHOTON TECHNOLOGIES, INC.

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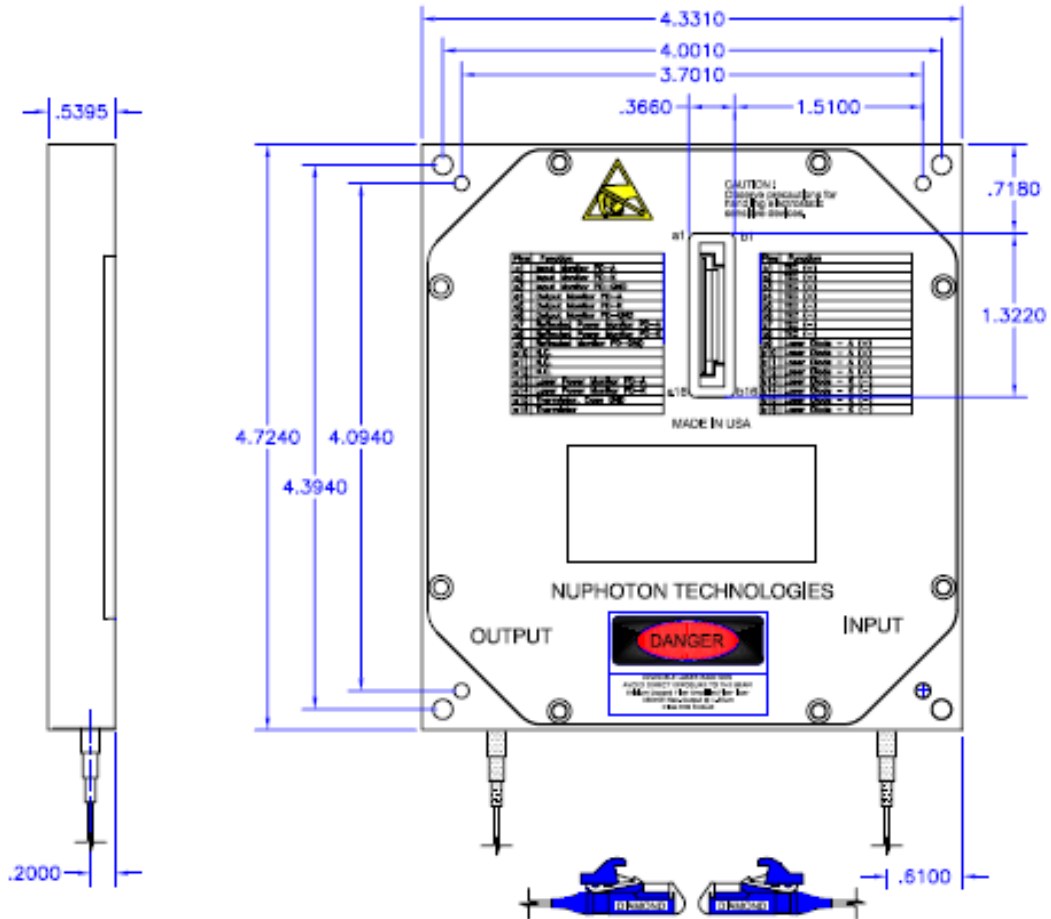
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# NP2000M Metro EDFA

## Module Package Outline

All dimensions in inches



# NP2000M Metro EDFA

## Laser Safety Information

### CLASS IIIb PRODUCT

Single-mode connector

Wavelength = 1550nm, 980nm or 1480 nm

Maximum power = 250 mW

NP2000 series products are CDRH certified for laser safety (IEC 60825-1 & IEC 60825-2).



## Ordering Information

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Wavelength Range	Package Type	EDFA Type	Output Power (dBm)	Signal Gain (dB)	Connector	No. of Output Ports
C - Band	00 Gain block; No Electronics	B Booster	E.g.: 18 18 dBm	Fixed Gain 2 digits + 00	FCU FC/UPC	01 Single Port
C0 Single Channel		L Line Amp			FCA FC/APC	04 4 Ports
C1 1546 - 1561 nm		P Pre-Amp			SCU SC/UPC	08 8 Ports
C4 1528 - 1563 nm	MS MSA compatible gain block without electronics	M Mid-Stage		Variable Gain Gain Range Eg: 2300 23 dB (fixed) 1030 10 - 30 dB (variable)	SCA SC/APC	16 16 Ports
L - Band					LCU LC/UPC	32 32 Ports
L0 Single Channel	MR MSA compatible gain block with electronics				LCA LC/APC	
L1 1568 - 1603 nm					000 Other	
L2 1570 - 1605 nm		RS RS232 gain block with alarms				
L3 1570 - 1610 nm		PR Rackmount / Table top with RS232				
L4 C & L Band	VG Variable gain					
	PM Polarization maintaining					
	CU Custom					

Example: NP2000-C0-MS-B-18-2300-FCU-01

## Contact

For pricing, lead-time and availability please contact:



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