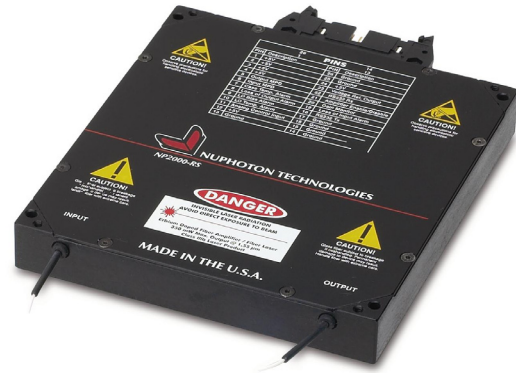


NP2000RS Series DWDM EDFA

The Erbium Doped Fiber Amplifier series NP2000RS is designed for single wavelength and DWDM applications in the C- and L-band.

The NP2000RS is a stand-alone gain block module that requires +5VDC bias and can be ordered with or without an integral heat sink. The dedicated digital and analog circuitry precisely controls the pump temperature and pump current using its monitoring and alarm functions. All the operating parameters of NP2000RS can be controlled through the RS232 serial port. Apart from display of alarm information through the RS232 interface, external I/O pins switch at TTL levels on alarm detection. AMP 102159-6 right angle 26-pin connector terminates the electrical connections.



The unit has Automatic Current Control (ACC), Automatic Pump Power Control (APC), Automatic Gain Control (AGC) and Automatic Output Power Control (AOPC) modes of operation. The unit is provided with a minimum input and output optical isolation of 30dB in the respective bands. The unit is also available in 19" 1U rack mount as an option: [NP2000PR](#).

A high power version of the NP2000RS series is also available: [NP3000RS](#).

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"> ▪ Wide Signal Bandwidth ▪ Excellent Gain Flatness ▪ User-friendly Software ▪ Dynamic Gain & Power Control ▪ ACC , APC, AGC, and AOPC modes of operation ▪ 19 " rack mountable option 	<ul style="list-style-type: none"> ▪ DWDM, Telecom, Datacom ▪ CATV ▪ FTTH ▪ Metro & Long Haul ▪ Test & Measurement ▪ LIDAR / LADAR, R&D ▪ Free-Space Optical (FSO) Communication

NP2000RS Series DWDM EDFA

Optical Performance

Parameter	Min.	Typ.	Max.	Units
C-band output power (DWDM)	-	-	13, 17, 20, 23	dBm
C-band output power (Single Channel)	-	-	14, 18, 21, 24	dBm
L-band output power (DWDM)	-	-	12, 16, 19, 21	dBm
L-band output power (Single Channel)	-	-	13, 17, 20, 23	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	-5	25	65	°C
Input voltage rating	+4.75	5	+5.25	V
Power dissipation (for 23dBm)	-	-	20	W
No. of output ports	-	-	32	
Input/Output Connectors	Customer specific			

Electrical Connector Pin Out

Connector: AMP 102159-6 Male Connector

Pin	Performance	Pin	Performance
1	+5V	14	Ground
2	+5V	15	Ground
3	+5V	16	Ground
4	+5V	17	Ground
5	Output Optical Power Monitor	18	Serial Communication Output Tx
6	Input Optical Power Monitor	19	Loss of Input Alarm
7	Case Temperature Alarm	20	Gain Monitor
8	Loss of Output Alarm	21	Amplifier Enable / Disable
9	Laser Diode Drive Current Alarm	22	Serial Communication Input Rx
10	Laser Diode Temperature Alarm	23	Voltage Reference Output
11	Analog Control Input	24	+5V
12	+5V	25	Ground
13	Ground	26	Ground

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NP2000RS Series DWDM EDFA

Module Package Outline

All dimensions in inches

