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ERBIUM DOPED FIBER AMPLIFER

TYPE- NP2000

FEATURES



High power to 33dBm
Low noise 4.5 dB typical
Wide signal bandwidth
  C- band: 1528 - 1563 nm
  L- band: 1568 - 1610 nm
Excellent gain flatness
Automatic Gain and Power Control
Highly reliable

APPLICATIONS

Telecom, Datacom
DWDM, CATV, FTTX
Metro & Long Haul
Test & Measurement
Free Space Optical (FSO) communications,
Lidar, R&D

SELECTION TABLE

	DWDM C- Band				DWDM L- Band		Custom		
DWDM Wavelength Band (nm)	1528- 1563	1529- 1561	1536.6- 1560.7	1546- 1560.7	1568- 1603	1570- 1610	Combined C&L - Band	Non- WDM C- Band	Non- WDM L- band
Composite Output Power (dBm)	10- 23	10- 23	10- 23	10- 23	8- 20	8- 20	8- 20	10- 40	8- 37
Per Channel Gain for DWDM (dB)	10- 30	10- 33	10- 33	10- 33	10- 33	10- 33	10- 30	Up to 50	Up to 50
Typical NF for < 0 dBm input (dB)	4.5- 5.5	4.5- 5.5	4.2- 5.5	4.2- 5.5	4.9- 6.0	4.9- 5.9	5.0- 6.0	4.2- 5.9	4.9- 5.9
Gain flatness with GFF (dB)	0.5 - 1.0		0.4- 0.7	0.3 – 0.5	0.5- 1.0			NA	
Gain flatness without GFF (dB)			0.5- 1.0	0.4 - 0.8	2 to 3dB			0.25- 0.5	

NUPHOTON TECHNOLOGIES

Cost-Effective Solutions for Optical Fiber Amplifiers

41610 Corning Place, Murrieta, California, 92562. Tel: 909- 696- 8366 Fax: 909- 696- 8394
Website: www.nuphoton.com E- mail: info@nuphoton.com

ORDERING INFORMATION

NP2000	WAVELENGTH RANGE C-BAND CO = Single Channel C1 = 1546 – 1560.7 C2 = 1536.6 – 1560.7 C3 = 1529 – 1561 C4 = 1528 – 1563 L-BAND L0 = Single Channel L1 = 1568 – 1603 L2 = 1570 – 1605 L3 = 1570 – 1610 L4 = C + L - BAND	PACKAGE TYPE 00 = Gain Block RS = RS232 Gain Block w/alarms PS = Rack Mount/Table Top PR = Rack Mount/Table Top w/RS232	EDFA TYPE B = BOOSTER L = LINE AMP P = PRE-AMP M = MID-STAGE V= VARIABLE GAIN	OUTPUT PWR (dBm)	SIGNAL GAIN (two digits + 00) Variable Gain (four digits- upper & lower range)	GAIN FLAT (dB) NO = none 05 = +/-0.5 10 = +/-1.0	MAX NOISE (dB) 45 = 4.5 55 = 5.5 65 = 6.5	CONNECTOR FCP = FC/PC FCA = FC/APC SCP = SC/PC SCA = SC/APC 000 = OTHER
NP2000	**XX -**	**XX -**	**X**	**XX -**	**XXXX -**	**XX -**	**XX -**	**XXX**

DESCRIPTION – NP2000

Type NP2000 EDFAs come in three basic forms: (1) A simple Gain block containing all optical components including pump lasers, (2) A Gain block, powered by +5VDC, with built- in electronics and a RS232 control interface, (3) A Gain block with the RS232 control electronics packaged in 19" rack mount. The basic gain block contains input/ output monitor photodiodes and input/output isolators. For such gain blocks, external control electronics are required to bias the pump lasers and the input/output monitor photodiodes through a 26 pin header. Each gain block can contain up to two 980/1480 nm pumps. The second form, the microprocessor controlled gain block can contain up to two pumps. It has various supervisory alarms and is controlled through RS232 interface. It can run at automatic constant gain mode for DWDM applications with sub millisecond settling time. The third form is the rack- mount or tabletop unit. It can provide all the alarm features the microprocessor-controlled gain block has and provides an RS232 interface. It can accept universal AC input voltages from 100V to 240V or 5-48VDC. Saturated output power from a dual pump, single gain block can be up to 25dBm. A DWDM EDFA is available up to 23dBm composite output power. Single- channel EDFAs are available up to 40 dBm with special designs as high as 70dBm. For additional information, please contact Nuphoton.

LASER SAFETY INFORMATION: Class III B, IV laser product, single- mode connector, wavelength = 915nm to 1550nm, maximum power = 100 mW to 10 W CW.

WARNING: INVISIBLE RADIATION IS EMITTED FROM THE END OF THE FIBER OR CONNECTOR. AVOID DIRECT OR SCATTERED RADIATION EXPOSURE TO THE BEAM. DO NOT VIEW WITH OPTICAL INSTRUMENTS.

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