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NUPHOTON TECHNOLOGIES

ASE Source

NP2000ASE ASE Source



NP2000ASE broadband source is an Eribium doped fiber light source that emits broadband spectrum in the C-band and / or in the L-band. Output optical isolation of minimum 50dB is standard for type NP2000ASE broadband source. Uniform output spectrum option is available. Also, this product is available in OEM chassis format.

The fluorescent light generated in the Erbium doped fiber by a pump laser at 980nm or 1480nm is about 3 to 5 orders of magnitude stronger than a typical white light source. Therefore ASE sources are ideal for characterizing optical components such as isolators, circulators, gratings, add/drop multiplexers for dense wavelength division multiplexing (DWDM) systems. Another application is remote sensing of temperature and pressure where electronic sensors can not be used.

NP2000ASE products are CDRH certified for laser safety (IEC 60825-1 & IEC 60825-2) and TUV certified for electrical safety (IEC 60950-1) and comply with Telcordia GR1312 requirements.

Features	Applications
▪ High Output Power	▪ Test and measurement
▪ C-band:10 dBm to 27 dBm	▪ Add/drop multiplexers for DWDM
▪ L-band:10 dBm to 27 dBm	▪ Characterization of optical components
▪ Wide Signal Bandwidth	▪ Sensors
▪ High Stability	▪ R&D
▪ Optional C+ L Band	
▪ Cost-Effective	

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

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NP2000ASE ASE Source

Optical Performance

Parameter	Min.	Typ.	Max.	Units
C-band output power	-	-	10, 13, 17, 20, 22, 24, 27	dBm
L-band output power	-	-	10, 12, 16, 19, 21, 23, 26, 27	dBm
Power stability	-	± 0.01	-	dB/ 5min
Output spectrum	C-band (1528 – 1563 nm), L-band(1568 – 1603 nm), C&L band combined			
Optical isolation of output	50	-	-	dB
Optical return loss	45	-	-	dB
Polarization sensitivity	-	-	0.1	dB
Temperature range of operation*	0	25	55	°C
Input voltage rating	100/120/220/240 VAC 47-63 Hz, 48 VDC or 5VDC			
Power dissipation (for 20dBm unit)	-	15	20	W
Input/Output Connectors	Customer specific			

* Extended temperature range available

ASE Source Spectrum

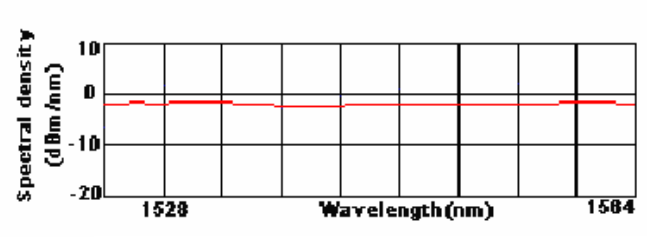


Fig. 1 Spectral Density as a function of wavelength for a typical C-band ASE source with 35 mW output power.

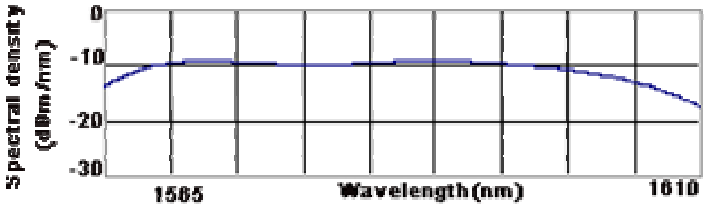


Fig. 2 Spectral Density as a function of wavelength for a typical L-band ASE source with 10 mW output power, without GFF.

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NP2000ASE ASE Source

Laser Safety Information

CLASS IIIb PRODUCT

Single-mode connector

Wavelength = 1550nm, 980nm or 1480 nm

Maximum power = 500 mW



NP2000ASE series products are CDRH certified for laser safety (IEC 60825-1 & IEC 60825-2) and TUV certified for electrical safety (IEC 60950-1).

Ordering Information

NP2000ASE – □ – □ – □□ – □□ – □□□

Wavelength Range	
C	C - Band
L	L - Band
X	C + L Band
C4	1528 - 1563 nm
L1	1568 - 1603 nm
L3	1570 - 1610 nm
L4	C & L Band

Package Type	
MS	MSA Compatible
PR	Rackmount / Tabletop
CU	Custom

Output Power (dBm)	
E.g.:	
18	18 dBm

Output Power Uniformity	
05	+/- 0.5 dBm with GFF
10	+/- 1.0 dBm with GFF
40	+/- 4.0 dBm with GFF
NO	NO GFF

Connector	
FCU	FC/UPC
FCA	FC/APC
SCU	SC/UPC
SCA	SC/APC
LCU	LC/UPC
LCA	LC/APC
000	Other

NP2000ASE-PR-18-05-FCA

Contact

For pricing, lead-time and availability please contact:

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