

NP2000ASE ASE Source

NP2000ASE broadband source is an Erbium 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
<ul style="list-style-type: none"> ▪ High Output Power ▪ C-band:10 dBm to 27 dBm ▪ L-band:10 dBm to 27 dBm ▪ Wide Signal Bandwidth ▪ High Stability ▪ Optional C+ L Band ▪ Cost-Effective 	<ul style="list-style-type: none"> ▪ Test and measurement ▪ Add/drop multiplexers for DWDM ▪ Characterization of optical components ▪ Sensors ▪ R&D



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

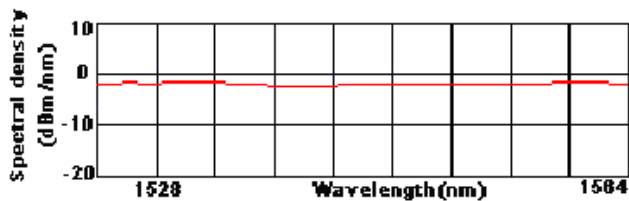


Fig. 1 Spectral Density as a function of wavelength for a typical C-band ASE source with 35 mW output power.

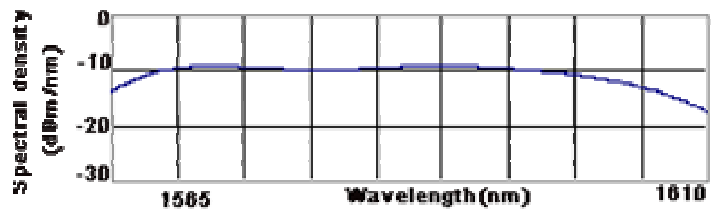


Fig. 2 Spectral Density as a function of wavelength for a typical L-band ASE source with 10 mW output power, without GFF.

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

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		Package Type		Output Power (dBm)		Output Power Uniformity		Connector	
C	C - Band	MS	MSA Compatible	E.g.:		05	+/- 0.5 dBm with GFF	FCU	FC/UPC
L	L - Band	PR	Rackmount / Tabletop	18	18 dBm	10	+/- 1.0 dBm with GFF	FCA	FC/APC
X	C + L Band			40	+/- 4.0 dBm with GFF	SCU	SC/UPC		
C4	1528 - 1563 nm	CU	Custom			NO	NO GFF	SCA	SC/APC
L1	1568 - 1603 nm			LCU	LC/UPC				
L3	1570 - 1610 nm			LCA	LC/APC				
L4	C & L Band			000	Other				

NP2000ASE-PR-18-05-FCA

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