

## Low DOP (Degree of polarization) ASE Broadband Light Source (1250 – 1650 nm)

Model #: ASE

Description: ASE (1250 – 1650 nm)

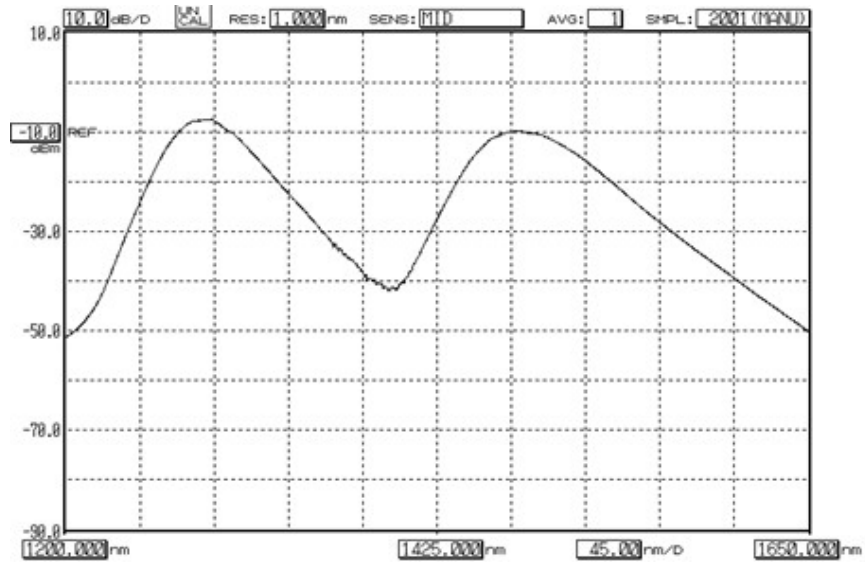
Application: Fiber sensor, test and measurement instrument, fiber optical gyroscope, OCT

### Specifications

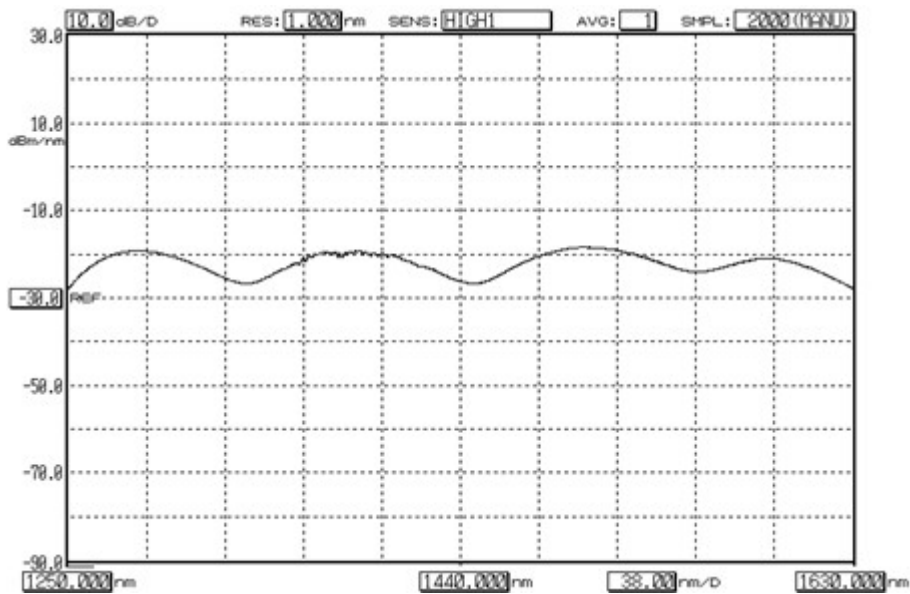
Parameter	Unit	Specifications
<b>Optical Specification</b>		
Operating Wavelength	nm	760 ~ 1120, 800 ~ 1100, 1240 ~ 1660, 1250 ~ 1650, 1260-1630, or 1220-1700
Spectrum Band Width	nm	As above
Min. Output Power	dBm	7
Min. Optical Power Density	dBm/nm	-35 ~ -25
Max. Ripple	dB	0.2 (0.5 dB within 1350-1420nm due to OH absorption)
Max. Output Power Short Term Stability <sup>1</sup>	dB	± 0.01dB (within 15 min.)
Max. Output Power Short Term Stability <sup>2</sup>	dB	± 0.03dB (within 8 hours.)
Max. Spectral Stability	dB	± 0.05 (5 min.) (± 0.2 dB within 1350-1420nm due to OH absorption)
Degree of Polarization	%	10 (typical)
Operating Mode		Continuous Wave
Fiber Type	dB	SMF-28
<b>Environmental Specification</b>		
Operating Temperature	°C	0 to +40
Storage Temperature	°C	-20 to + 70
Power Supply	VAC	AC 110/220 ± 10% 50Hz, 20W
Dimension (desk-top)	mm	320 (W) x 220 (D) x 90 (H)

\* Stability is tested at room temperature  $25 \pm 2^\circ\text{C}$  after warm-up 30 minutes.

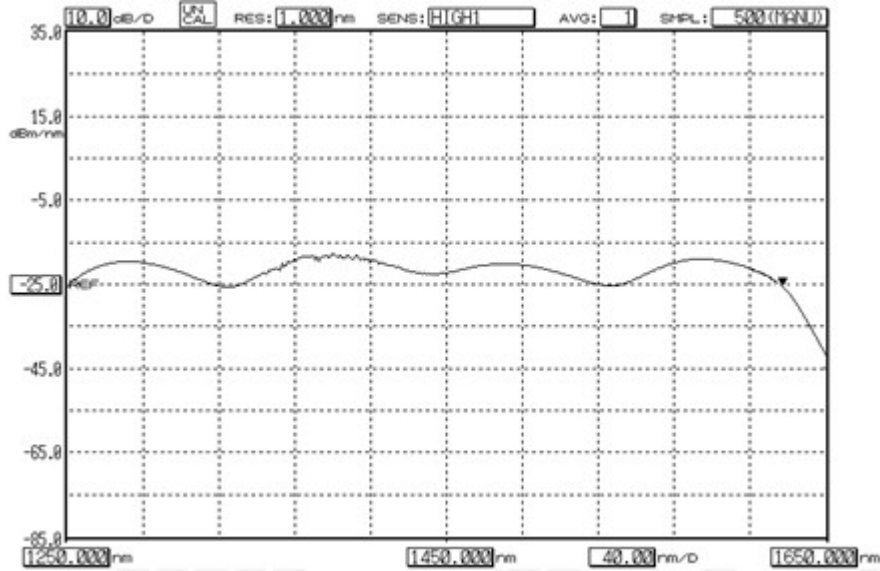
1. Test condition: fixed temperature, CW;
2. Test condition: temperature variation  $\pm 2^\circ\text{C}$ , CW



**Figure 1. -45 dBm/nm Spectrum density over 1250 – 1630 nm  
 (1350 ~ 1420 nm with OH absorption, ripple <0.5dB)**



**Figure 2. -30 dBm/nm Spectrum density over 1250 – 1630 nm  
 (1350 ~ 1420 nm with OH absorption, ripple <0.5dB)**



**Figure 3. -25 dBm/nm Spectrum density over 1250 – 1630 nm  
 (1350 ~ 1420 nm with OH absorption, ripple <0.5dB)**

**Ordering Information: ASE-EB-A-B-C-D**

A: package	B: operating wavelength	C: power spectral density	D: connector
D - Desktop	1 – 1250 ~ 1650 nm	40 - -40dBm/nm	1 – FC/UPC
	2 – 1260 ~ 1630 nm	30 - -30dBm/nm	2 – FC/APC
	3 – 1240 ~ 1660 nm	25 - -25dBm/nm	3 – SC/UPC
	4 – 1220 ~ 1700 nm	X - other	4 – SC/APC
	5 – 800 ~ 1100 nm		X - other
	6 – 760 ~ 1120 nm		
	X - other		