

## ASE Broadband Light Source Module

**Model #:** ASEM

**Description:** The ASE (Amplified spontaneous emission) optical source module is designed for optical sensor system, such as FBG Sensor Interrogator, Optical Fiber Gyroscope. It's mainly parts are Erbium-doped fiber and high quality pump laser. Unique ATC and APC circuit path ensure the output stability. The output power can adjustable by RS232 or RS485 ports.

The optical path of the product is optimization especially. Professional design GFF (Gain flattening Filter) make the flatness and spectrum stability reach to excellent level. C-Band and C+L Band flat products can be provided.

This ASE Source is compatible with the Telecordia GR1312-core qualification.

**Application:** FBG fiber sensor, optical fiber gyroscope, test and measurement instrument, fiber optical communication, defense and military affairs, OCT, spectrum analyzer etc.

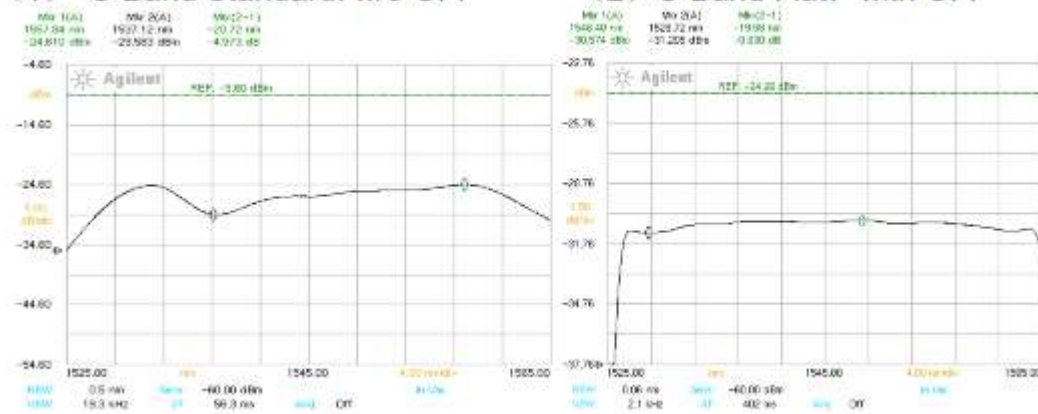
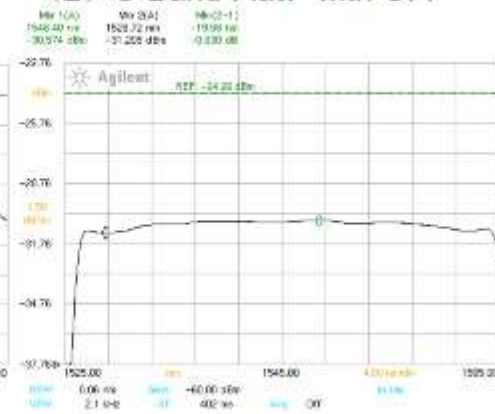
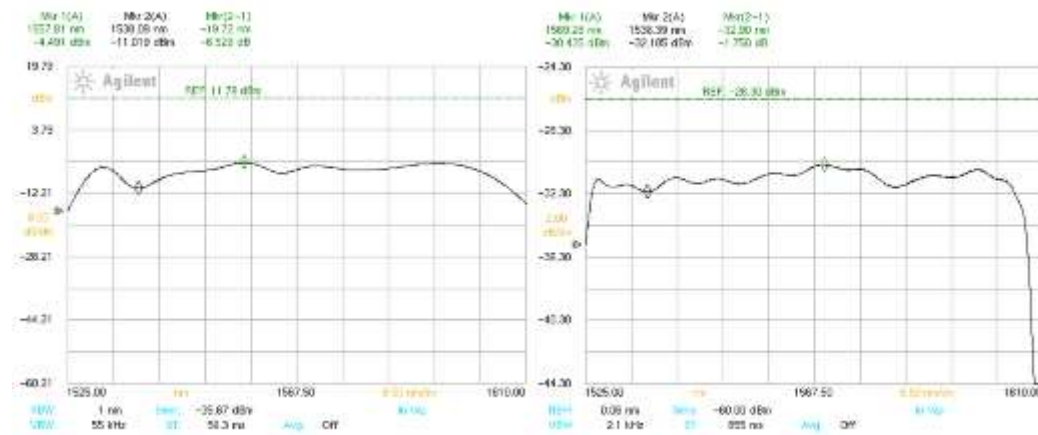
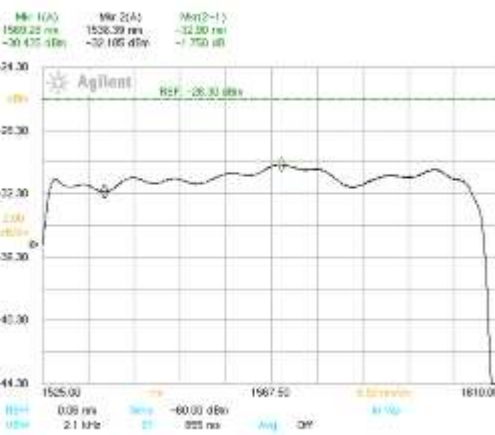
### Features:

- High output power: up to 50 mW
- Broad operation bandwidth: cover C-band and L-band
- Excellent flatness within spectrum range
- ATC and APC control
- Customized spectrum available
- +5VDC or +3.3VDC power supply
- Small form factor
- Intelligent microprocessor control option

### Specifications

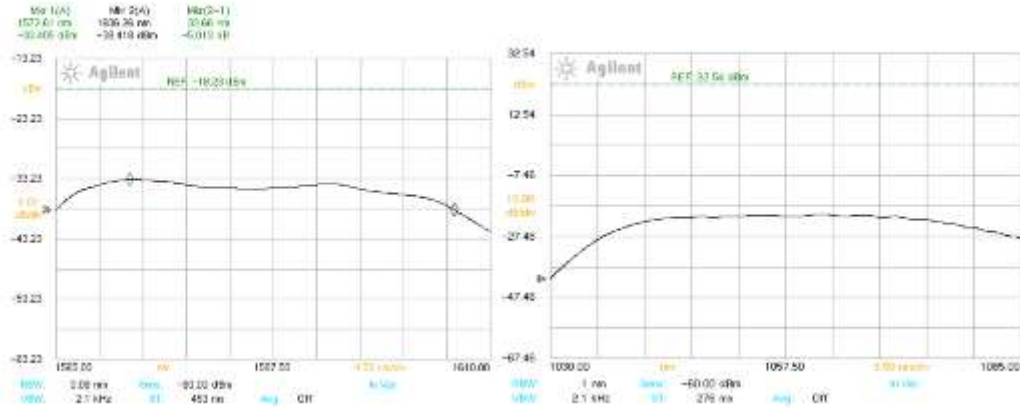
Parameter		Unit	Specifications	
<b>Optical Specification</b>				
C-band	Gain Flattening Filter		No	Yes
	Operating Wavelength Range	nm	1525 ~ 1565	1527 ~ 1565
	Max. Flatness	dB	7	1.5
	Min. Output Power	dBm	13 ~ 23	13 ~ 20
	Fiber Type	dB	SMF-28	
L-band	Gain Flattening Filter		No	
	Operating Wavelength Range	nm	1565 ~ 1610	
	Max. Flatness	dB	5	
	Min. Output Power	dBm	13 ~ 20	
	Fiber Type	dB	SMF-28	
C+L-band	Gain Flattening Filter		No	Yes
	Operating Wavelength Range	nm	1525 ~ 1605	1527 ~ 1605
	Max. Flatness	dB	10	2
	Min. Output Power	dBm	13 ~ 23	13 ~ 17
	Fiber Type	dB	SMF-28	
1060-band	Gain Flattening Filter		No	
	Operating Wavelength Range	nm	1035 ~ 1085	
	Max. Flatness	dB	8	

	Min. Output Power	dBm	13 ~ 20
	Fiber Type	dB	HI1060
<b>Electrical Specification</b>			
Power Supply	VDC	3.0 ~ 3.5 (or 1.75 ~ 5.5)	
Typ. Power Consumption	W	10	
Dimension	mm	90×70×15 or 150×125×19	
<b>Environmental Specification</b>			
Operating Temperature	°C	-5 to +65	
Storage Temperature	°C	-40 to + 80	
Humidity (no condensing)	%	10 ~ 85	

**(1) C-Band Standard: w/o GFF**

**(2) C-Band Flat: with GFF**

**(3) C+L Band Standard**

**(4) C+L Band Flat**


(5) L-Band Standard

(6) 1060 Band Standard



150 x 125 x 19 mm

