

## C+L band ASE Broadband Light Source

The fiber ASE broadband light source is a non-coherent light source, which is the spontaneous emission generated by erbium-doped quartz fiber pumped by semiconductor laser. It adopts spectral flattening technology to achieve a broadband flat spectrum. The light source wavelength covers the C+L band, with a spectral flatness better than 3dB, and is delivered through a single mode.

Output in optical fiber or polarization-maintaining optical fiber, suitable for applications such as optical fiber sensing.



### Features

Flat spectrum/adjustable power/  
highly stable output power

### Application

Optical fiber sensing/Medical  
imaging/Optical fiber device  
testing

Optical indicators	unit	Typical value					Note
Spectral range	nm	1528-1603					≥75nm@3dB,C+L band
Output optical power	mW	10	20	50	100	200	
Spectral power density	dBm/nm	≥-9	≥-6	≥-2	≥1	≥4	
Power regulation range (optional function)	-	10%to 100%					Power adjustable and maintaining flatness
Spectral flatness	dB	≤3@10/20/50/100mW					≤6dB@200mW
Output port isolation degree	dB	>35					
Short-term stability(15 minutes)	dB	±0.02 or less					Equivalent≤±0.5%
Long-term stability(8 hours)	dB	±0.05 or less					Equivalent≤±1.2%
Polarization extinction ratio(PER)	dB	≤0.2		≥23			
Optical fibers and connectors	-	SMF-28		PM1550			FC/APC

Electrical and environmental parameters	Desktop	Module
Control mode	Key input/RS232 serial communication	RS232 serial communication
Communication interface	DB9 Female	DB9 Female
Power supply	100~240V AC,<30W	5V DC,<15W
Product Size	260(W)×280(D)×120(H)mm	125(W)×150(D)×20(H)mm
Operating temperature range	-5~+35℃	
Working humidity range	0 to 70%	

### Ordering Information/Model

ASE	Spectral range	Output power(mW)	Adjustable power(optional)	Output pigtail type	Encapsulation form
	CL	10/20/50/100/20	*T	SM=SMF-28 PM=PM1550	B=desktop M=module