

C+L band single mode ASE light source



● Product Description

ASE light source is a white light source with very high brightness in a very wide spectral range. The C+L band ASE wide spectral range light source module is an amplified spontaneous emission (ASE) light source used in distributed fiber Bragg grating sensor systems, optical passive device testing, and spectral analysis design. Based on the basic principle of semiconductor laser pumping rare earth doped fiber (Er ion) to generate C-band (1528-1563nm) amplified spontaneous emission (ASE), the specially



designed C-band spectral gain flattening filter (GFF) structure enables the product to have high light-to-light conversion efficiency and excellent C-band spectral flatness. At the same time, in order to ensure the strict requirements of the distributed fiber Bragg grating system for the stability of the light source output, the global optical feedback control technology and pulse width modulation (PWM) precision temperature control technology are adopted internally to ensure high output light power stability and spectral waveform stability.

● Product features

High output power up to 10mW、 Broad spectrum 1528-1605nm, spectrum width up to 80nm、 Stable spectrum output power、 Flat output

● Part Number

MP-ASE-C+L-13-77-SA

● Application area

Optical component testing、 OCT spectrometer、 FBG sensor、 Fiber optic gyroscope 、 Gas detection

● Core parameters

Operating Wavelength Range	Output Optical Power	Flatness
1528-1605nm	13dBm	2.5dB

● General Parameters

Parameter

Parameter		Unit	Min.	Typical	Max.
Operating wavelength range		nm	1528	-	1605
Output optical power		dBm	-	13	-
Short-term output power stability (1)		dB	-	-	0.05
Long-term output power stability (2)		dB	-	-	0.1
Flatness		dB	-	-	2.5
Operating temperature range	module	°C	-20	-	+60
	benchtop	°C	0	-	60
Storage temperature range		°C	-45	-	+85
Humidity(3)		%	5	-	90
(1) Single temperature, 15-minute output light power stability (2) Single					

Electrical performance characteristics

Structure	Parameter	Specification	Unit	Note
Module	Power supply voltage	DC +5V/GND		
	Power consumption	<5	W	At normal temperature
Benchtop	Power supply voltage	AC 220V		
	Power consumption	<30	W	At normal temperature

Mechanical structure

Structure	Parameter	Parameter	Unit	Note
Module	Structural dimensions	150x125x30.5	mm	Size can be customized
	Power supply interface type	DC +5V/GND		Typical
	Output pigtail type	SM		
	Communication interface type	DSUB25 male connector		
Benchtop	Structural dimensions	260.6x162.8x76	mm	
	Power supply interface type	N-L-CAC220V power supply interface		
	Output optical interface	FC/APC connector		Customizable



	Communication interface type	RJ45 network port or console port		
	Cooling fan	1	PCS	

Communication type

Structure	Parameter	Specification	Note
Module	Communication interface	26Pin 2.00 pitch serial port	customizable
	Protocol	RS232	
	Communication user interface	Can read or set output optical power	
Benchtop	Communication interface	Ethernet or RS232	
	Protocol	RS232 or SNMP	
	Communication user interface	GUI	

Ordering Information

MP-ASE-□□□□-W△-F△△-S▽▽-C▽

□□□□: Average Power

10:10mw

-10=-10dbm

W△: Wavelength



C:C band

L:Lband

CL=C+L Band

F△△;Flatness

2=2dB

2.5=2.5dB

S▽▽: SIZE

M1=70X60X15mm

M2=80X70X15mm

M3=Diameter80X18mm

B=Bechtop

C▽: Pigtail and Connector

SA=SMF-28E+FC/APC

PP=PM150+FC/PC