

L-band ASE broadband light source



● Product Description

The fiber ASE broadband light source is an incoherent light source. It is the spontaneous radiation generated by semiconductor laser pumping erbium-doped quartz fiber. At the same time, the spectrum flattening technology is introduced to achieve broadband flat spectrum. The wavelength of the light source covers the L band, and the spectrum flatness is better than 3dB. It is output through single-mode fiber or polarization-maintaining fiber, which is suitable for applications such as fiber optic sensing.

● Product features

Spectral flatness、 Adjustable power、 Highly stable output power



● Part Number

MP-ASE-L-10-75-PA

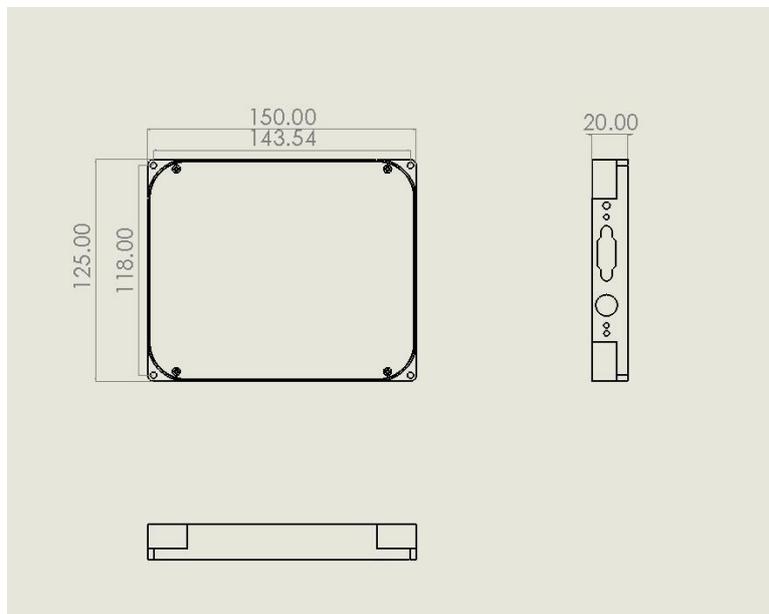
● Application area

Fiber optic sensing, Medical imaging, Fiber optic device testing

● Core parameters

Wavelength	Output Power	Connector
1528-1603nm	1/20/50/100mW	FC/APC

● Dimension Drawing





● General Parameters

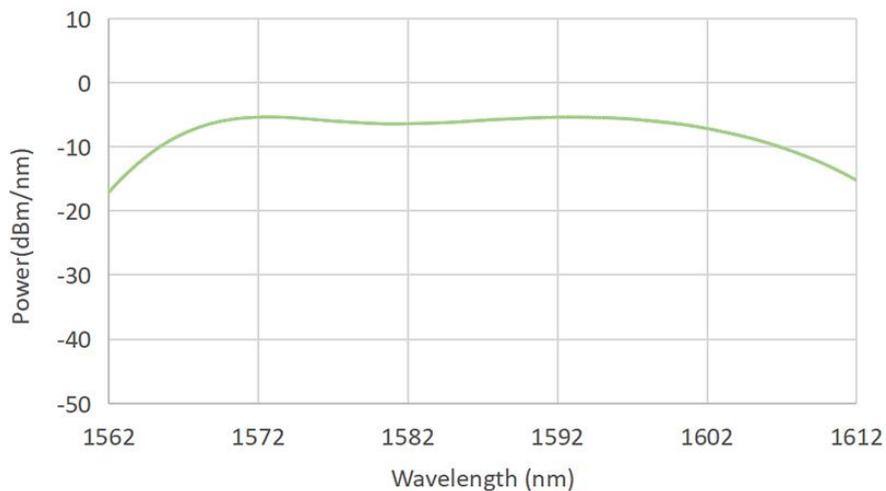
Parameter

Parameter	Unit	Typical	Notes
Spectral range	nm	1567~1603@2dB	1565~1610nm@10dB
Output optical power	mW	10/20/50/100	Constant power
Power adjustment range (optional function)	-	10%~100%	Unchanged spectral flatness
Spectral flatness	dB	2 (Type), 3(Max)	
Output isolation	dB	>35	
Short-term stability (15 minutes)	dB	$\leq \pm 0.02$	Equivalence $\leq \pm 0.5\%$
Long-term stability (8 hours)	dB	$\leq \pm 0.05$	Equivalence $\leq \pm 1.2\%$
Polarization degree DOP	dB	≤ 0.2	
Pigtail type	-	SMF-28or PM1550 Polarization-mode	
Pigtail connector type	-	FC/APC	



Electrical and environmental parameters	Benchtop	Module
Control mode	Button	RS232 Serial communication
Communication interface	Optional	DB9 Female
Power supply	100~240VAC,<30W	5V DC,<15W
Dimensions	260(W)×280(D)× 120(H)mm	125(W)×150(D)× 20(H)mm
Operating temperature range	-5~+35°C	
Operating humidity range	0~70%	

Optical Spectrum of L Band ASE Source





Parameter	Unit	Min.	Typical	Max.	Notes
Wavelength range	nm	1528		1603	Covering C+L band
Spectral width	nm		73.4		@2 dB
Flatness			75.7		@3 dB
Output power	dB		2.5		
Output isolation	mW	1		100	Adjustable
Operating temperature range	dBm		-		
Operating humidity range	dB		35		
Storage temperature range	°C	-5		+45	
Power supply type	%			75	
Pigtail connector type	°C	-40		+85	
Output pigtail type	-	100~240V AC			
Dimensions	-	FC /APC			
Wavelength range	-	Corning SMF-28			
Spectral width	mm	260×280×120			
Communication interface and software	-	DB9-RS232, Software Version V20220401			



Spectral range@2dB



Spectral range@3dB



Ordering information / PN#					
ASE	Spectral range	Output power (mW)	*Adjustable power (optional)	Output pigtail type	Package method
	L	10/20/50/100	*T	SM=Single mode fiber PM=polarization-mode fiber	B=benchtop M=module