

Product: (1/2+1)×1 Multimode Pump & Signal Combiner

Part Number	Spec Number	Version	Date
MPSCXXXXXXXXXXXX	S022	Rev 01	10/10/2023

1 Specifications
1.1 Environment Conditions

Item	Parameters	Symbol	Min	Typ	Max	Units	Note
1.	Operating Temperature	Top	0		70	°C	
2.	Storage Temperature	Tstor	-40		105	°C	
3.	Operating Relative Humidity	RHop	5		95	%	[1]
4.	Storage Relative Humidity	RHstor	5		95	%	[1]

Note:

[1] Not to exceed industrial standard of 0.024 kg water per kg of dry air under non-condensing conditions.

1.2 Optical Specifications

Item	Parameters	Symbol	Min	Typ	Max	Units	Note
5.	Signal Wavelength	λ_s	1530	1550	1570	nm	
6.	Pump Wavelength	λ_p	900	940	1000	nm	
7.	Insertion Loss (Input → Output) @1550nm	ILs			0.5	dB	
8.	Pump Efficiency @940nm	PE	90			%	
9.	Optical Power Handling (Average)	Psop			5	W	G
10.	Optical Power Handling (Pulse Peak)	Psp			5	kW	G
11.	Optical Power Handling (Pump CW)	Pp			10	W	G

*Above specifications are for device without connector. IL is 0.3 dB higher, RL is 5 dB lower after connector added.

G: Guaranteed by design.

1.3 Mechanical Specifications
1.3.1 Specifications

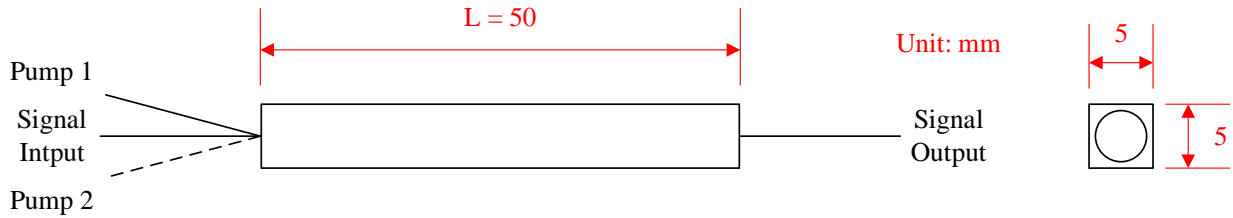
Item	Parameters	Symbol	Min	Typ	Max	Units	Note
12.	Fiber Type (Forward Type)	Signal Input		G.657 A1			
		Signal Output		Double-clad fiber			
		Pump 1& 2		105/125 0.22NA			
13.	Fiber Type (Forward Type)	Signal Input		Double-clad fiber			
		Signal Output		G.657 A1			
		Pump 1& 2		105/125 0.22NA			
14.	Fiber Length			By PN		m	
15.	Fiber Jacket			Bare fiber			
16.	Connector Type			None			
17.	Package Dimension			5×5×50		mm	
18.	Fiber Color	Signal Input		Natural			
		Signal Output		Natural			
		Pump 1		Black			[2]
		Pump 2		Red			[2]

Note:

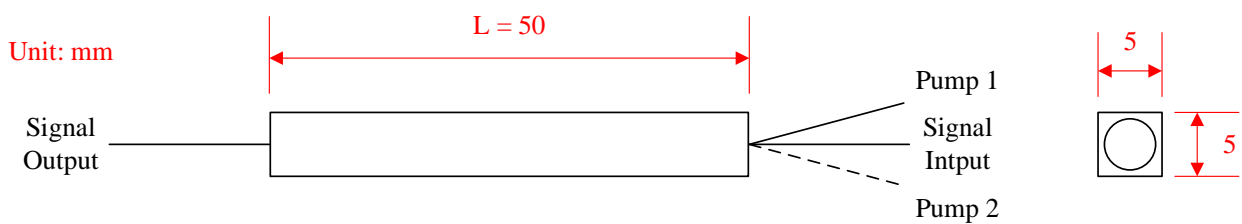
[2] Mark the bare fiber starting at 10~30cm away from the device body to fiber end.

1.3.2 Drawing

Forward Type:



Backward Type:



2 Device Label, Delivery Data

Triple-Stone standard format.

3 RoHS

RoHS compliant.

4 Ordering Information

