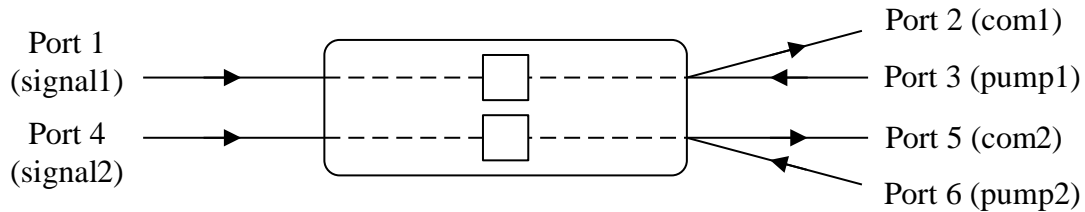


Product: Mini Dual 1550/980nm WDM

Part Number	Spec Number	Version	Date
SWDMDXXXXXXXXXX	S040	Rev 01	06/09/2023

1 Function Diagram



2 Specifications

2.1 Environment Conditions

Item	Parameters	Symbol	Min	Typ	Max	Units	Note
1.	Operating Temperature	Top	0		70	°C	
2.	Storage Temperature	Tstor	-40		85	°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.

2.2 Optical Specifications

Item	Parameters	Symbol	Min	Typ	Max	Units	Note
5.	Signal Wavelength	λ_s	1524 ~ 1572			nm	
6.	Pump Wavelength	λ_p	965 ~ 990			nm	
7.	Signal Channel	Insertion Loss (1→2, 4→5) @ λ_s	ILs	0.6	0.9	dB	
8.		PDL (1→2, 4→5) @ λ_s	PDLs		0.15	dB	
9.		WDL (1→2, 4→5) @ λ_s	WDLs		0.2	dB	
10.		TDL (1→2, 4→5) @ λ_s	TDLs		0.2	dB	
11.		WDM Pass Isolation (1→2, 4→5) @ λ_p	ISO	30			dB
12.	Pump Channel	Insertion Loss (3→2, 6→5) @ λ_p	ILp		0.6	dB	
13.		PDL (3→2, 6→5) @ λ_p	PDLp		0.1	dB	
14.		TDL (3→2, 6→5) @ λ_p	TDLp		0.2	dB	
15.		WDM Reflect Isolation (3→2, 6→5) @ λ_s	ISO	15			dB
16.	Return Loss (All Ports)	RL	50			dB	
17.	Directivity (1→3, 4→6)	DIR	45			dB	
18.	Directivity (1→5, 4→2)	DIR	50			dB	
19.	Directivity (3→1, 6→4, 2→5, 3→6)	DIR	50			dB	
20.	Optical Power @ λ_s	Pop			500	mW	G
21.	Optical Power @ λ_p	Pop			500	mW	G

Note:

* 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.

2.3 Mechanical Specifications

2.3.1 Specifications

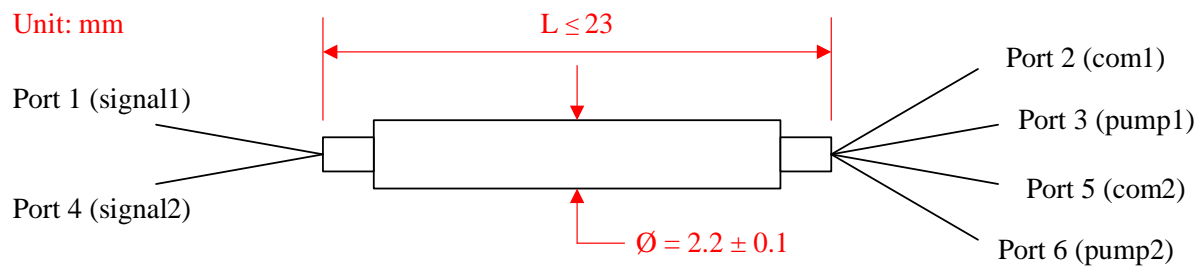
Item	Parameters	Symbol	Min	Typ	Max	Units	Note
22.	Fiber Type	Common & Pump		By PN			[2]
		Signal		ZBL			
23.	Fiber Length			By PN		m	
24.	Fiber Jacket			Bare fiber			
25.	Connector Type			By PN			
26.	Package Dimension			See drawing below		mm	
27.	Fiber Color	Port 1 & Port 2		Red			[3]
		Port 3		Clear			
		Port 4 & Port 5		Black			[3]
		Port 6		Blue			[3]

Note:

[2] 125/250μm fiber is OFS 980-20 (125/250) by default, 80/165μm fiber is OFS 980-20 (80/165) by default.

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

2.3.2 Drawing



3 Device Label, Delivery Data

Triple-Stone standard format.

4 RoHS

RoHS compliant.

5 Order Information

