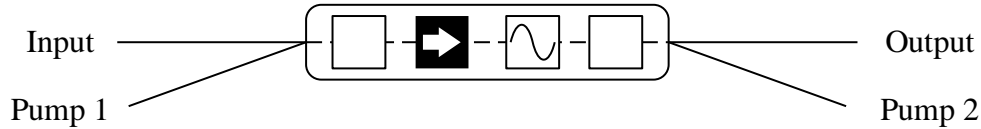


**Product: WDM + Isolator +GFF + WDM Hybrid**

Part Number	Spec Number	Version	Date
WIGWXXXXXXXXXXXX	S007	Rev 01	02/01/2022

**1 Function Diagram**

This is a 980/1550nm WDM + Isolator +GFF + 980/1550nm WDM Hybrid.



**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	$\lambda_s$		1528 ~ 1568		nm		
6.	Pump Wavelength	$\lambda_p$		965 ~ 990		nm		
7.	Signal Channel (Input - Output)	Excess Loss @ $\lambda_s$ Single Stage	EL			1.2	dB	
		Excess Loss @ $\lambda_s$ Dual Stage	EL			1.4	dB	
		Polarization Dependent Loss @ $\lambda_s$	PDL			0.3	dB	
		Isolation (Output → Input) @ $\lambda_s$ Single Stage	ISO	20			dB	
		Isolation (Output → Input) @ $\lambda_s$ Dual Stage	ISO	35			dB	
		Isolation @ $\lambda_p$	ISO	30			dB	G
		Error Function	EF				0.5	dB
8.	Pump Channel (Input - Pump 1 / Pump2 - Output)	Insertion Loss @ $\lambda_p$	IL			0.6	dB	
		Polarization Dependent Loss @ $\lambda_p$	PDL			0.15	dB	
		Isolation @ $\lambda_s$	ISO	15			dB	G
9.	Directivity	Input → Pump 2 @ $\lambda_s$	Dir	55			dB	
10.	Directivity	Pump1 → Output @ $\lambda_p$	Dir	55			dB	
11.	Return Loss		RL	50			dB	
12.	Optical Power @ $\lambda_s$ / $\lambda_p$	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

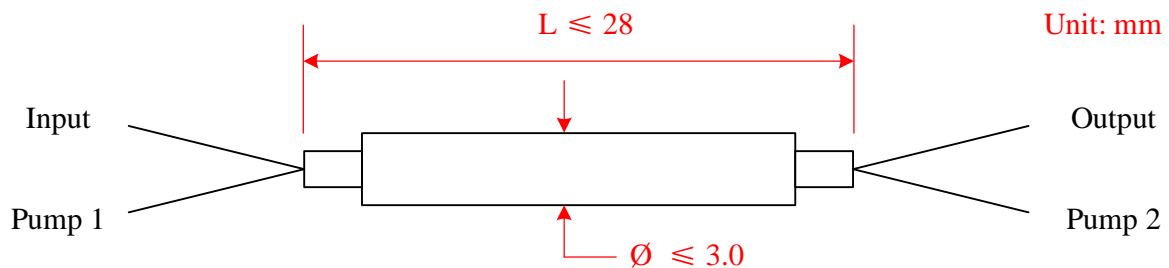
### 2.3.1 Specifications

Item	Parameters		Symbol	Min	Typ	Max	Units	Note
13.	Fiber Type	All Ports		OFS CL 980-20				
14.	Fiber Length				$\geq 0.8$		m	
15.	Fiber Jacket			125/250 $\mu$ m bare fiber				
16.	Package Dimension			See below for details			mm	
17.	Connector Type	All Ports		None				
18.	Fiber Color	Input		Black				[3]
		Pump 1		Natural				
		Output		Red				
		Pump 2		Natural				[3]

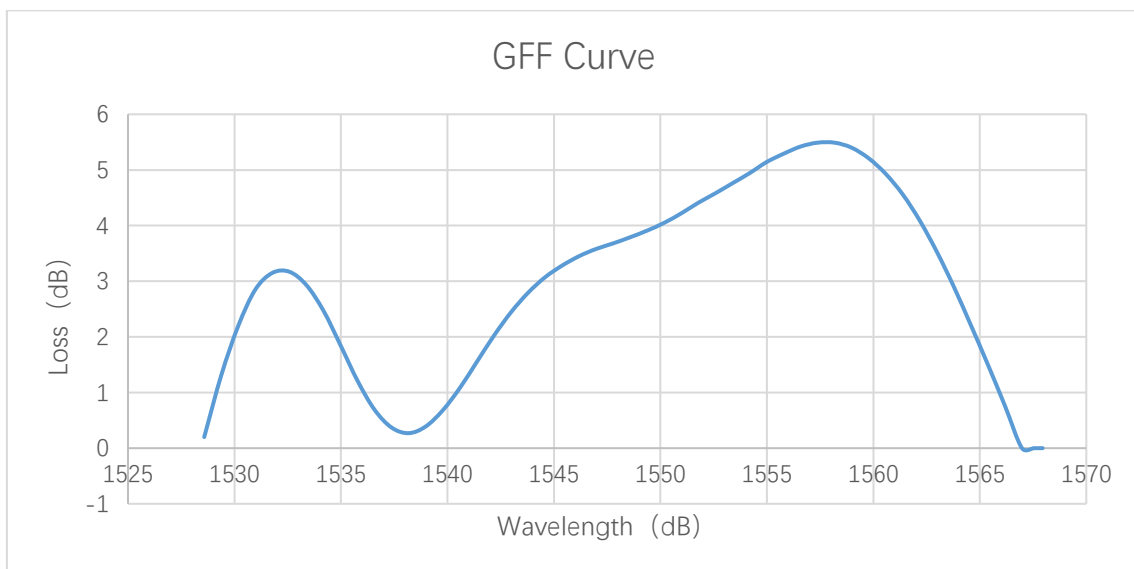
**Note:**

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

### 2.3.2 Drawing



## 3 Target Curve (Customized)



## 4 Device Label, Delivery Data

Triple-Stone standard format.

## 5 RoHS

RoHS compliant.

## 6 Ordering Information

